

AD-A150 437 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS) 1/4  
WILLOW GROVE PENNSYLVANIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

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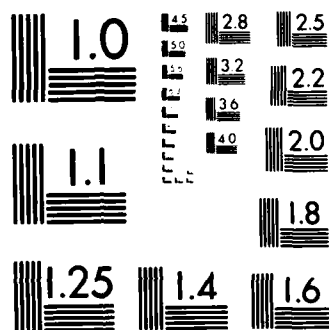
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SMOS, Willow Grove, Pa.

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# SMOS

## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

STATION:	#14793	Willow Grove, PA
PERIOD:	HOURLY	1/73-12/84
	DAILY	2/45-12/82
JOB NO.	72006	DATE August 1984

PREPARED BY  
NAVAL OCEANOGRAPHY  
COMMAND DETACHMENT,  
FEDERAL BUILDING  
ASHEVILLE, N.C. 28801

PREPARED FOR  
COMMANDER,  
NAVAL OCEANOGRAPHY  
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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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11. CONTROLLING OFFICE NAME AND ADDRESS Commanding Officer Naval Oceanography Command Facility NSTL, MS 39529-5002		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, coastal region, snow depth, and cloud cover		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

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## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SHOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCD), Asheville, N.C. welcomes your comment and criticisms.

STATION NO ON SUMMARY		STATION NAME		LATITUDE		LONGITUDE		STATION ELEV (FT)		CALL SIGN		WMO NUMBER	
14793		Willow Grove, Pennsylvania		40°11'N		75°08'W		369		KNXX			
<b>STATION LOCATION AND INSTRUMENTATION HISTORY</b>													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY				
			FROM	TO			STATION (FT)	TYPE BAROMETER					
1.	Weather service office, second deck of ops bldg	USN	1949	1956	40°11'N	75°08'W	380	Tunnelot	Var				
2.	Weather service office, ground floor of hangar/ops bldg	"	1956		"	"	346	"	"				
1a.	Weather office in GMQ-14 cabinet	"	1967		"	"	348	Aneroid	"				

SURFACE WIND EQUIPMENT INFORMATION					REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
NUMBER OF LOCATION	DATE OF CHANGE	LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	
1.		Above control tower roof	*Selsyn		1. Barograph (ML-3)
1a.	Installed 1958	1800' west southwest from hangar/operations bldg	UMQ-5C	RD-108B	2. Automatic met sta (AN-GMQ-29A)
2a.	1965	4600' southeast of hangar 80	"	"	3. Ceiling light (ML-121)
		500' southwest of centerline 15-33			4. Cloud height set (AN/GMQ-13)
		Top of control tower, SW corner of hangar 80	"	"	5. Transmissometer (AN/GMQ-10)
3.	1977				6. Radar (RO-415/GMH-6)
					7. GOES (RO 379/GMH)
					8. Pilot to forecaster radio (RHMS 9)
		*Decommissioned 1958.			

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation. Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

## PART A

# ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

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STATION	STATION NAME	YEARS	MONTH
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
JAN	11.5	0.0	3.0	0.1	16.0	0.0	1.7	11.0	51.0	2.0		67.7	77
FEB	10.0	0.0	10.0	3.0	17.0	0.0	4.0	7.1	40.0	4.0		57.1	144
MAR	11.0	0.1	47.0	1.0	10.0	0.0	12.0	60.0	32.0	3.0		57.0	677
APR	10.0	0.2	11.0	0.7	4.3	0.0	47.0	77.0	60.0	7.0		60.0	503
MAY	11.0	11.0	56.0		0.0	0.0	51.0	77.0	32.0			74.0	106
JUN	10.0	10.0	72.0				47.7	71.0	77.4		0.1	76.0	100
JUL	10.0	10.0	47.0			0.0	41.0	67.0	51.3			73.0	104
AUG	10.0	10.0	43.0			0.0	40.0	34.1	72.0			60.0	102
SEP	10.0	10.1	43.0			0.0	70.0	67.0	71.0			67.0	101
OCT	10.0	10.0	71.0		1.0	0.0	37.1	67.0	30.0			76.0	96
NOV	10.0	0.0	44.1	0.7	1.0	0.0	40.0	30.1	5.0			71.0	101
DEC	10.0	0.0	30.0	0.4	0.0		77.0	60.0	51.0	0.1		65.0	102
TOTALS	7.0	70.0	47.0	1.0	1.0	0.0	40.0	71.0	32.0	1.1		71.0	600

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# WEATHER CONDITIONS

STATION NAME: STATION NAME YEARS: 19 MONTH: JAN

NO CONTACT - FROM 1000 TO 2000 HOURS - NO DATA  
 NO DATA FROM 0000 TO 0900 HOURS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
	01		0.0	0.0	0.0		15.0	0.0	3.0	0.0		19.4	777
	02		0.0	1.3	0.5		15.0	1.0	0.1	0.0		22.0	777
	03		0.0	1.0	0.1		13.0	2.0	0.0	0.0		29.0	711
	04		0.0	1.3	0.1		14.0	21.0	1.0	0.0		37.0	711
	05		0.1	0.0	0.7		17.0	10.0	17.1	1.0		32.0	711
	06		0.0	1.3	0.0		10.0	14.0	15.0	0.0		20.0	711
	07		7.7	1.0	0.5		17.1	14.0	0.1	0.0		22.0	711
	08		0.0	1.0	0.1		14.0	17.0	0.0	1.0		21.0	711
	09												
	10												
	11												
	12												
	13												
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	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29												
	30												
TOTALS			7.7	1.1	7.7		14.2	10.0	10.0	0.0		20.7	2411



# WEATHER CONDITIONS

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

PRECIPITATION: RAIN, SLEET, SNOW, DRIZZLE, FOG, HAZE, DUST, SAND, BLOWING SNOW, % OF OBS. WITH PRECIP., % OF OBS. WITH OBST. TO VISION, TOTAL NO. OF OBS.

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS. WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS. WITH OBST. TO VISION	TOTAL NO. OF OBS.
	1		.7	.0	1.9		11.3	11.3	0.0	.3		21.0	317
	2		21.0	.7	1.0		13.6	0.0	4.0			23.3	310
	3		1.0	.3	2.3		11.0	0.0	10.7			23.0	310
	4		11.0	.3	4.0		15.0	17.0	15.0			21.0	310
	5		13.2		4.0		17.4	16.0	13.0			20.4	310
	6	.3	11.0		1.0		14.0	10.0	11.0			20.0	310
	7	.3	11.0		3.0		14.0	13.0	6.0			27.0	310
	8		10.0	.3	3.0		13.0	10.0	5.0			21.0	310
TOTALS		.1	11.0	.2	3.0		14.0	1.0	9.0	.3		20.4	2400







# WEATHER CONDITIONS

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
	1	0.0	8.0				4.0	0.0	0.0			47.1	71
	2	1.0	0.1				5.1	43.2	27.1			75.2	71
	3	1.0	5.0				5.0	42.0	77.1			63.2	71
	4	0.0	6.0				6.0	11.0	44.0			52.3	71
	5	1.0	5.0				5.0	0.0	42.0			45.0	71
	6	4.0	7.0				7.0	7.0	47.1			50.6	71
	7	1.0	6.0				6.0	0.0	30.0			54.1	71
	8	2.3	4.0				4.0	17.1	75.0			46.0	71
TOTALS		1.5	5.0				5.0	10.7	79.4			52.2	740





# WEATHER CONDITIONS

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

MONTHLY AVERAGE OF 1000 HOURS OF WEATHER  
OBSERVATIONS FROM 10 HOURS OF OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
	01	1.3	1.0				10.0	75.0	14.3			43.0	300
	02	1.3	0.7				9.3	46.0	13.3			40.3	300
	03	.3	0.0				1.3	43.0	22.0			50.0	300
	04	.3	0.7				1.7	31.0	34.0			40.7	300
	05	.3	8.3				1.3	7.7	75.7			41.3	300
	06	1.3	8.3				9.3	7.3	34.0			40.3	300
	07	.3	10.7				10.7	14.7	28.3			40.7	300
	08	0.0	10.3				10.3	20.0	19.3			30.7	300
TOTALS		.9	9.0				9.4	20.0	24.0			40.0	2400



# WEATHER CONDITIONS

STATION NAME: 1 P YEARS: 1967 MONTH: APRIL

PERCENTAGE OF OBSERVATIONS OF WEATHER CONDITIONS FROM 4000 FT. OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
1	12		11.7				11.7	22.7	7.7			22.7	7.7
2	12	.3	12.7				12.7	24.7	7.7			24.7	7.7
3	12		7.7		.3		7.7	21.3	6.3			21.3	7.7
4	12		7.7	.3	1.3		7.7	20.3	20.3			27.3	7.7
5	12		5.7	.3	2.3		5.7	6.7	20.3			26.7	7.7
6	12	.7	7.7	.3			8.7	17.7	21.7			21.7	7.7
7	12	.3	5.3		1.3		12.3	13.3	9.7			21.3	7.7
8	12		9.7		1.3		10.7	15.7	6.7			22.3	7.7
9													
10													
11													
12													
TOTALS		.3	5.3	.1	.7		7.7	18.9	11.2			29.7	24.7



# WEATHER CONDITIONS

STATION NAME

STATION

YEARS

ALL MONTH

STATION NAME: STATION OF OBSERVATION  
 OBSERVING OFFICER: H. J. COOPER

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS.
JAN	24.0		7.7	1.1	7.6		15.0	10.0	17.5	.5		21.7	24.0
FEB		.2	7.1	.7	5.8		13.1	10.0	9.1	.6		24.9	22.5
MAR		.1	11.0	.2	3.2		14.0	1.0	9.6	.0		20.4	24.0
APR		.2	17.7		.6		11.0	17.3	9.1	.1		21.4	24.0
MAY		.6	15.2		.2		13.2	24.0	14.2			33.3	24.7
JUN		1.9	9.0				9.0	21.3	26.9			45.7	24.0
JUL		1.0	5.0				5.0	19.7	29.4			50.1	24.0
AUG		1.0	6.1				5.1	27.4	16.7			50.4	24.0
SEP		.7	9.0				9.4	23.0	24.2			41.0	24.0
OCT		.2	3.4		.1		5.0	21.0	13.0			72.7	24.0
NOV		.2	0.9	.1	.7		9.0	1.0	11.2			20.0	24.0
DEC			9.4	.1	3.0		15.0	1.7	7.7	.3		26.4	24.0
TOTALS		.7	9.0	.2	1.7		10.0	2.0	18.0	.1		38.0	29.13

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

2

04 4 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

WIND DIRECTION	RAIN CLOUDS	FOGGING RAIN FREEZING FURZEE	ICE SILTY CONTAINS	SNOW GRAINS PELLETS SHOWERS	HAIR SMALL HAIR	TOURNEP	FOG	ICE FOR LAND ICE	ICE HAIR	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N							1.1		12.1			50.1
NNE			2.1	14.3			2.1	2.1	12.2			57.1
NE			1.1	25.1			7.1		10.1	1.1		47.1
ENE			1.1	21.1			4.1	1.1	14.1	1.1		20.1
E			1.1	15.1			3.1	2.1	15.1			35.1
ESE			1.1	16.1			4.1	3.1	16.1			27.1
SE			4.1	16.1			3.1	4.1	25.1			32.1
SSE			2.1	2.1			17.1	5.1	31.1			43.1
S				2.1			22.1		23.1			48.1
SSW				1.1			24.1	2.1	23.1			50.1
SW				4.1			1.1	1.1	15.1			62.1
WSW				4.1			7.1		7.1			61.1
W				2.1			7.1		6.1			55.1
WNW				3.1			1.1	3.1	5.1	1.1		55.1
NW				5.1			6.1		5.1	1.1		54.1
NNW				2.1			6.1	1.1	5.1	1.1		54.1
VARIELE												
TOTAL												
TOTAL												

TOTAL NUMBER OF OBSERVATIONS

2,461

TOTAL NUMBER OF OBSERVATIONS

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

[illegible]

TOTAL NUMBER OF OBSERVATIONS

10



# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

ADVIS

JANUARY 1973-20 CLEVELAND, OHIO

STATION NAME

STATION

ELEVATION, FT. OR

YEAR

NO. OF YEARS

WIND DIRECTION	RAIN SHOWERS	PALE SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	4.0	2.0	0.7			1.0		0.7	1.0	1.0	4.0	0.7		87.0
NNE	0.0	1.0	1.0			1.0			1.0		6.0			80.0
NE	0.0	1.0	0.0			0.0			0.0		11.0			52.0
ENE	0.0	1.0	7.0			1.0		1.0	43.0	2.0	7.0			50.0
E	0.0	4.0	1.0						43.0	2.0	13.0			36.0
ESE	0.0	4.0	0.0			1.0		1.0	32.0	1.0	15.0			42.0
SE	0.0	1.0	0.0						21.0		12.0			43.0
SSE	0.0	0.0	1.0						0.0		15.0			50.0
S	0.0	4.0	1.0						0.0	5.0	13.0			70.0
SSW	0.0	6.0	1.0					1.0	7.0	2.0	15.0			72.0
SW	0.0	3.0	0.0						0.0	1.0	17.0			74.0
WSW	0.0	4.0	0.0						0.0	0.0	17.0			74.0
W	0.0	3.0	0.0						0.0	0.0	7.0			84.0
WNW	0.0	1.0	0.0			1.0			0.0	0.0	5.0			85.0
NW	0.0	1.0	1.0			0.0			0.0	0.0	7.0	0.0		80.0
NNW	0.0	0.0	0.0						1.0	0.0	2.0			95.0
VARIABLE														
CALM	0.0	0.0	0.0			0.0			0.0	0.0	0.0			0.0
TOTAL	14	70	13		1	14		7	60	71	217	0		1310
PERCENT	1.0	3.0	1.0		0.0	0.0		0.0	12.0	1.0	6.0	0.0		75.0

TOTAL NUMBER OF OBSERVATIONS

2940

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLUSH ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	0.7	4.3	2.0						5.0		6.0			22.2
NNE	0.0	3.0	0.0						7.1	1.0	12.0			55.0
NE	0.0	1.4	12.2						77.8		6.8			32.7
ENE	1.0	4.1	12.0					1.7	78.7	1.3	16.0			40.7
E	1.0	2.5	17.2					0.0	40.5	1.3	21.7			52.5
ESE	1.7	5.6	11.6						45.1	4.1	16.0			37.8
SE	10.0	3.4	7.8						77.2	2.6	25.6			35.0
SSE	10.0	3.3	5.6					2.0	73.2	0.9	26.9			40.3
S	1.7	0.4	4.3						70.3	2.1	20.5			49.3
SSW	0.0	4.7	1.4					1.4	10.0	2.7	22.3			60.1
SW	0.0	3.5	0.7					1.4	12.9	2.2	20.8			53.1
WSW	0.0	4.1						1.3	7.3	3.3	22.5			65.6
W	0.0	3.2						0.0	10.0	3.2	20.0			68.6
WNW	1.0	4.6				0.7		1.3	5.3	2.0	13.8			77.0
WA	1.0	4.3						0.7	4.3	0.7	8.5			30.3
NNW	0.0	2.4						0.0	7.0		0.7			81.0
VARIABLE														
CALM	0.0	2.0	1.0						24.7	6.0	20.5			52.7
TOTAL	1.4	1.0	37			1		10	102	62	431			1457
TOTAL	0.1	4.0	2.5			0.0		0.0	20.3	2.5	18.2			50.5

TOTAL NUMBER OF OBSERVATIONS

2.475

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

STATION NAME		DATE		TIME		MONTH									
STATION NAME		DATE		TIME		MONTH									
WIND DIRECTION	WIND SPEED	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAPE'S PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	0	0	0	0	0	0	0	0	0	0	0	14.7	0	0	71.4
NNE	0	0	0	0	0	0	0	0	0	0	0	17.9	0	0	71.4
NE	0	0	0	0	0	0	0	0	0	0	0	27.1	0	0	45.7
ENE	0	0	0	0	0	0	0	0	0	0	0	31.1	0	0	41.9
E	0	0	0	0	0	0	0	0	0	0	0	25.9	0	0	70.1
ESE	0	0	0	0	0	0	0	0	0	0	0	29.4	0	0	72.4
SE	0	0	0	0	0	0	0	0	0	0	0	27.3	0	0	43.1
SSE	0	0	0	0	0	0	0	0	0	0	0	34.3	0	0	70.0
S	0	0	0	0	0	0	0	0	0	0	0	36.7	0	0	43.0
SSW	0	0	0	0	0	0	0	0	0	0	0	41.7	0	0	43.0
SW	0	0	0	0	0	0	0	0	0	0	0	36.9	0	0	61.1
WSW	0	0	0	0	0	0	0	0	0	0	0	43.2	0	0	44.2
W	0	0	0	0	0	0	0	0	0	0	0	36.2	0	0	53.6
WNW	0	0	0	0	0	0	0	0	0	0	0	33.0	0	0	55.7
NW	0	0	0	0	0	0	0	0	0	0	0	27.7	0	0	62.3
NNW	0	0	0	0	0	0	0	0	0	0	0	16.2	0	0	77.2
VARIABLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JULY

JANUARY 1973-01-01-1992

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.0	2.7	.7						.7		25.5			67.1
NNE	1.0	4.2	1.4					1.4	.3	1.4	15.3			75.6
NE	7.1	1.3	1.3					1.0	17.0	3.6	25.3			55.4
ENE	14.0	4.9	6.0					2.4	25.3	4.9	29.3			38.6
E	12.3	6.0	2.7						26.0	1.4	35.6			33.6
ESE	1.3	5.3							21.1	2.6	61.5			56.3
SE	5.3	5.9	2.9						27.5		39.2			33.3
SSE	1.4	17.3	5.5					4.1	17.3	1.4	35.6			43.0
S	1.7							1.7	11.7	3.3	40.8			45.0
SSW		7.3						.7	15.1	2.7	44.5			41.9
SW		2.4						1.0	10.1	3.0	54.4			36.1
WSW		5.3						2.5	5.5	6.0	54.7			34.3
W		2.3						1.0	15.5	4.0	46.5			44.7
WNW		2.4						1.0	12.6	1.3	52.7			37.7
W		3.1						1.3	7.9	2.5	33.1			61.3
NW		4.1	.7					2.0	6.6	2.0	21.9			72.2
NNE	1.1	2.1	1.4					1.7	26.0	1.1	34.6			41.0
TOTAL		13	15					40	394	93	974			1147
TOTAL		3.9	.3					1.5	15.9	3.3	39.3			46.3

TOTAL NUMBER OF OBSERVATIONS

2,481

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

06 JAN 1973-07 JAN 1973

WIND DIRECTION	RAIN SHOWERS	CRIZZLE	COLLING RAIN FREEZING DRIZZLE	SNOW GRAPEL ICE	THUNDER	FOG	ICE FROG GROUND FROG	SNOW HAZE	BLUING SNOW	BLUING HAZE SNOW	WIND DIRECTION
N	1.0	0.7			0.7	0.1	0.7	24.4			67.9
NNE	0.1	0.7				1.0	4.0	25.3			77.7
NE	0.0	17.2			3.7	27.0	3.7	19.3			50.1
ENE	0.0	0.0	0.0		2.0	26.3	0.0	25.0			47.7
E	2.0	4.4	0.0		1.0	20.3	6.1	39.3			34.0
ESE	0.0	5.0			4.0	27.0		44.0			28.0
SE	0.0	11.1			0.0	42.0	1.0	27.3			29.0
SSE	4.0	4.0			1.0	47.1	3.1	36.0			26.0
S	0.0	4.0	1.0		2.0	26.0	1.0	47.6			31.1
SSW	2.0	7.1			0.0	27.0	2.4	46.3			27.3
SW	0.0	3.1			2.0	21.0	7.2	52.7			29.3
WSW	0.0	4.1			2.0	17.0	11.7	61.9			22.3
W	0.0	1.0			0.0	17.4	4.5	57.9			27.0
WNW	0.0	4.0	0.0		0.0	10.6	5.0	50.3			27.0
NW	0.0	2.0			0.0	10.0	4.7	27.6			53.0
NNW	0.0	1.0			0.0	2.7	1.0	20.1			56.7
ASAB	0.0	0.0			0.0	0.0	0.0	0.0			0.0
ALL	0.0	0.0			0.0	0.0	0.0	0.0			0.0
TOTAL	1.0	5.0	1.0		4.0	53.0	14.0	93.0			70.0
WIND	0.0	3.0	0.0		1.0	21.7	5.6	76.6			20.0

TOTAL NUMBER OF OBSERVATIONS

1,411

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

1073 FIELD STATION, DE JANUARY 1973-PAGE 100

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	WAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SMOG	BLOWING SAND AND DUST	NO WEATHER
N	1.0	1.0						1.0	1.3	1.6	13.3			74.6
NNE	1.0	3.4	2.2						21.3	1.1	12.4			59.6
NE	1.4	6.0	3.0					1.0	31.3	3.0	9.5			50.2
ENE	1.0	4.5	12.0					1.0	35.3	5.7	15.2			48.0
E	1.1	5.1	14.0					1.0	47.3	2.7	16.2			33.0
ESE	1.1	10.7	3.6					1.0	23.3	3.6	26.2			46.4
SE	2.7		2.7						14.3	2.7	16.2			65.9
SSE	7.4	6.1	1.5					1.0	22.7	7.6	25.3			47.0
S	1.0	5.9	1.0					2.0	11.6	4.9	43.1			34.3
SSW	2.0	2.9	.9						17.2	3.4	27.1			47.4
SW	1.0	4.5							17.0	7.1	43.3			67.0
WSW	1.0	3.6							21.1	6.2	45.3			32.7
W	1.0	2.1						1.1	17.3	5.2	40.5			47.0
WNW	1.0	2.9	.7					2.1	7.3	3.0	32.6			58.0
WA	1.0	1.4	.7					.7	.9	1.4	21.2			69.9
NWA		4.5							.3	1.4	12.9			79.9
VARIABLE														
CALM	1.0	1.0	.9					1.0	26.0	1.0	15.4			53.0
TOTAL	1.1	77	55					22	550	114	506			1279
TOTAL	1.0	3.2	2.3					.0	31.3	4.0	24.3			53.1

TOTAL NUMBER OF OBSERVATIONS

5,400

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

DATE: 10/10/74 14:00 N. NAVY 10/10/74 14:00

WIND DIRECTION	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIR STALL HAIR	THUNDER	FOG	CE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
NNE	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
NE	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
ENE	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
E	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
ESE	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
SE	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
SSE	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
S	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
SSW	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
SW	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
WSW	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
W	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
WNW	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
NW	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
NNW	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
VARIABLE	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
CALM	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
TOTAL	11	11	11	11	11	11	11	11	11	11	11	11	11
TOTAL	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9

TOTAL NUMBER OF OBSERVATIONS

2,460

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JUL A 1977-0 0 0 0 1982 N 100E

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREQUENT RAIN FALLING DRIZZLE	STREET SHOWERS DRIZZLE	SNOW PELLETS SHOWERS	HAIR SPARK HAIR	THUNDER	EGG	CEILING GROUND F.O.	SMOKE HAIR	BURNING HAIR	BURNING SAND AND FOSS	NO WEATHER
N	.	2.7							1		7.7			7.7
NNE	.	3.3	1.1						1.7		6.6			74.7
NE	.		4.4			3.3			3.3		6.6			42.7
ENE	1	4.2	1.7						7	1.7	1.7			7.7
E	1.1	1.7	1.7	1.7	1.7	2.7			4.7	1.7	11.7			7.7
ESE	.		1.7						7.9		12.7			7.7
SE	1.1		3.3						7.4	2.7	17.5			7.7
SSE	1.1	3.6	3.6						4.7	1.7	23.6			41.7
S	1.1	4.3	2.2			1.1			7.3	3.3	13.0			53.3
SSE	1.1	7.4							1.7	1.7	16.8			59.7
SSW	1.1	3.6							17.5	1.7	17.4			56.7
SW	.	1.7						1.7	13.8	4.5	16.9			61.4
SSW	.	1.7						1.7	5.7	1.7	11.1			79.7
WSW	.	1.7						.	8.3	4	6.3			37.7
W	1.7	4	1.7			9			5.3	4	4.7			89.1
WNW	4	5	1.1			2.7			6.3	1.1	5.3			84.6
W	1.7	1.7	1.7						7.7	1.7	12.2			57.7
WSW	1.7	4.2	5.3		1	1		4	4.7	4.7	16.8			12.7
W	1.7	1.7	2.4					.	17.5	2.7	11.2			65.2
TOTAL	1.7	4.2	5.3		1	1		4	4.7	4.7	16.8			12.7
TOTAL	1.7	1.7	2.4					.	17.5	2.7	11.2			65.2

TOTAL NUMBER OF OBSERVATIONS 2,400



CONFIDENTIAL

[illegible]

TOTAL NUMBER OF OBSERVATIONS

74

[illegible]

TOTAL NUMBER OF OBSERVATIONS

212

## PART B      PRECIPITATION, SNOWFALL & SNOW DEPTH

B

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION	DERIVED FROM DAILY OBSERVATIONS
SNOWFALL*	DERIVED FROM DAILY OBSERVATIONS
SNOW DEPTH	DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
(FROM DAILY OBSERVATIONS)

STATION NAME: 4-47, 49-27, 60-11 YEARS

AMOUNTS (INCHES)															PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02	05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504						
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120						
JAN	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0	713	3.50	13.71	0.0	
FEB	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	734	3.01	6.77	0.0	
MAR	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	744	4.00	6.02	1.0	
APR	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	700	3.69	6.02	1.0	
MAY	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	662	4.47	1.49	1.0	
JUN	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	700	3.02	8.0	1.0	
JUL	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	692	4.21	7.84	1.0	
AUG	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	744	4.57	15.09	1.0	
SEP	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	710	3.04	6.02	1.0	
OCT	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	744	3.01	7.0	0.47	
NOV	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	700	3.01	6.02	0.0	
DEC	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	600	3.02	7.0	0.0	
ANNUAL	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	33.0	27054	3.60		

PERCENTAGE FREQUENCY OF  
(FROM DAILY OBSERVATIONS)

STATION	STATION NAME	YEARS
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
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14	14	14
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16	16	16
17	17	17
18	18	18
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42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
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64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

PRECIP	NONE	TRACE	01	02-05	06-10	11-25	AMOUNTS (INCHES)												TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
							26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000	PERCENT OF DAYS WITH MEASUR- ABLE AMTS	MEAN	GREATEST	LEAST					
SNOW-FALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504									
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120									
JAN	.	1.0	.0	4.0	7.0	1.0	.5	.0	.	.	.	.	11.1	1.1	7.1	2.0						
FEB	.	1.0	.1	2.0	1.0	.0	.0	.0	.0	.1	.1	.	10.7	.6	8.8	2.0						
MAR	.	1.1	1.2	.9	1.1	.7	.0	.7	.0	.1	.	.	9.4	7.4	1.2	1.0						
APR	.	.0	.0	.1	.0	.0	.0	.1	.	.	.	.	1.0	7.0	.3	6.0						
MAY	.	.	.	.	.	.	.	.	.	.	.	.	6.0	1.0	1.0	1.0						
JUN	.	.	.	.	.	.	.	.	.	.	.	.	1.0	.0	.0	.0						
JUL	.	.	.	.	.	.	.	.	.	.	.	.	1.1	.0	.0	.0						
AUG	.	.	.	.	.	.	.	.	.	.	.	.	7.4	.0	.0	.0						
SEP	.	.	.	.	.	.	.	.	.	.	.	.	7.0	.0	.0	.0						
OCT	.	.	.	.1	.0	.	.	.	.	.	.	.	7.4	.1	1.0	.0						
NOV	1.0	.0	.0	.1	.0	.	.	.	.	.	.	.	1.0	7.0	1.0	.0						
DEC	7.0	1.0	.0	1.0	1.0	.0	.0	.0	.0	.1	.	.	6.0	4.0	2.0	1.0						
ANNUAL	.	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	1.0	1.0	1.0						

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# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

PRECIP	NONE	TRACE	01	02	05	06	10	11	25	26	50	51	100	AMOUNTS (INCHES)										PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS	MONTHLY AMOUNTS (INCHES)					
														10.1-20.00	20.01-30.00	30.01-40.00	40.01-50.00	50.01-60.00	60.01-70.00	70.01-80.00	80.01-90.00	90.01-100.00	MEAN			GREATEST	LEAST				
														OVER 30.4	OVER 50.4	OVER 70.4	OVER 90.4	OVER 110.4	OVER 130.4	OVER 150.4	OVER 170.4	OVER 190.4									
SNOW- DEPTH	NONE	TRACE	1	2	3	4	6	7	12	13	24	37	48	61	120	OVER 120															
JAN	0.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
FEB	0.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
APR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
JUN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
JUL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
AUG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
SEP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
OCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NOV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
DEC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ANNUAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

DATE: 11/17/77  
FROM DAILY OBSERVATIONS

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1				1.1		1.07	1.07	1.07	1.07		1.1		
2				1.1									
3				1.02				.83	.83	.83	.87	1.03	
4				.75	1.33	.83	2.43	4.15	.98	1.04	1.07	1.03	
5				.47	1.2	.80	.75	1.00	.87	.20	1.03	1.11	
6				2.73		1.07			1.51				
7				1.27	1.08	1.03	1.66	2.23	1.26	1.74	.43	1.03	
8				.95	.73	.69	1.27	2.85	1.07	.83	.83		
9				1.23	.86	1.11	.83	3.00	1.17	2.50	.63	.44	
10				1.53	1.13	1.33	1.12	1.14	1.27	1.41	1.73	1.23	
11				.67									
12													
13													
14													
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95													
96													
97													
98													
99													
100													
MEAN													
S D													
TOTAL OBS.													

SMOS

## EXTREME VALUES

FROM DAILY OBSERVATIONS.

YEARS

## SMS



## EXTREME VALUES

FROM DAILY OBSERVATIONS

YEARS

[illegible]

MONTH YEAR		JAN.	FEB.	MAR.	APR.	MAY	JUN	JUL	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1954			.07 27	.07 29		1.04 14					.07 17		.07 31	1.04 14
1955		1.07 14		.17 17	.07 17	1.07 14		.04 17	2.07 14	1.07 14	.07 17	.07 17	.07 31	1.04 14
1956		.07 17	.07 17	1.07 14		1.07 14	.04 17	.07 17	.07 17	1.07 14	2.07 14	2.07 14		1.04 14
1957		.07 17	.07 17	1.07 14		1.07 14	.04 17	.07 17	.07 17	1.07 14	2.07 14	2.07 14		1.04 14
1958		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1959		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1960		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1961		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1962		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1963		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1964		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1965		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1966		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1967		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1968		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1969		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1970		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1971		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1972		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1973		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1974		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1975		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1976		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1977		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1978		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1979		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1980		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1981		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1982		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1983		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1984		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1985		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1986		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1987		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1988		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1989		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1990		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1991		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1992		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1993		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1994		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1995		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1996		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1997		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1998		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
1999		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2000		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2001		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2002		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2003		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2004		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2005		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2006		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2007		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2008		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2009		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2010		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2011		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2012		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2013		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2014		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2015		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2016		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2017		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2018		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2019		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2020		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2021		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2022		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2023		1.07 14	.07 17	.07 17	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	1.07 14	.07 17	.07 17	1.07 14	1.04 14
2024		1												

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# EXTREME VALUES

PRECIPITATION  
FROM DAILY OBSERVATIONS

STATION NAME ASHEVILLE, NC YEARS 1957, 1958

24 HOUR AMOUNTS IN INCHES  
/ AROUND LESS THAN FULL MONTH

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1													5.50 IN DAYS
2													5.50 IN DAYS
3													5.50 IN DAYS
4													5.50 IN DAYS
5													5.50 IN DAYS
6													5.50 IN DAYS
7													5.50 IN DAYS
8													5.50 IN DAYS
9													5.50 IN DAYS
10													5.50 IN DAYS
11													5.50 IN DAYS
12													5.50 IN DAYS
13													5.50 IN DAYS
14													5.50 IN DAYS
15													5.50 IN DAYS
16													5.50 IN DAYS
17													5.50 IN DAYS
18													5.50 IN DAYS
19													5.50 IN DAYS
20													5.50 IN DAYS
21													5.50 IN DAYS
22													5.50 IN DAYS
23													5.50 IN DAYS
24													5.50 IN DAYS
25													5.50 IN DAYS
26													5.50 IN DAYS
27													5.50 IN DAYS
28													5.50 IN DAYS
29													5.50 IN DAYS
30													5.50 IN DAYS
31													5.50 IN DAYS
MEAN													
S D													
TOTAL OBS													

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

FROM DAILY OBSERVATIONS

STATION		STATION NAME												YEARS	
MONTH YEAR		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS	
1															
2															
3															
4															
5															
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93															
94															
95															
96															
97															
98															
99															
100															
MEAN															
S D															
TOTAL OBS															

SMOS

## EXTREME VALUES

77  
(FROM DAILY OBSERVATIONS)

STATION	STATION NAME	YEARS
4-57	4-57, 66-77	

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# SMOS

## EXTREME VALUES

FROM DAILY OBSERVATIONS)

STATION	STATION NAME	YEARS
173	ILL. C. C. & O. CO.	4-50, 55-

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
DATE 08-16-2007 BY 60322 UCBAW

MONTH YEAR	JAN	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
6		29 29	• 70		• 70					• 31		• 31	SNOWFALL DAYS
67	29 29			29	31		• 31		• 30		• 31	• 31	SNOWFALL DAYS
68	29 29	49 49	29 6		31		• 31				• 31		SNOWFALL DAYS
69	49 49	29 29	29 1	29	31	• 31	• 31		• 31		• 31	• 31	SNOWFALL DAYS
70	49 29	29 29	29 27	29 27	• 25	• 13	• 14		• 30			• 31	SNOWFALL DAYS
71	• 10	29 29					• 31						SNOWFALL DAYS
72												• 31	SNOWFALL DAYS
73	29 29				31	• 30	• 31						SNOWFALL DAYS
74	29 29				31								SNOWFALL DAYS
75				29	31		29	• 31	• 31	• 31	• 30	• 31	SNOWFALL DAYS
76					31	• 31	• 31	• 31	• 31	• 31	• 31	• 31	SNOWFALL DAYS
77				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
78				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
79				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
80				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
81				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
82				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
83				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
84				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
85				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
86				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
87				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
88				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
89				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
90				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
91				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
92				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
93				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
94				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
95				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
96				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
97				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
98				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
99				29	31	• 31	• 31		• 31	• 31	• 31	• 31	SNOWFALL DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS

## EXTREME VALUES

FROM DAILY OBSERVATIONS

STATION

STATION NAME

VEABS

4-5-6-7	YEARS
1	1940
2	1941
3	1942
4	1943
5	1944
6	1945
7	1946
8	1947
9	1948
10	1949
11	1950
12	1951
13	1952
14	1953
15	1954
16	1955
17	1956
18	1957
19	1958
20	1959
21	1960
22	1961
23	1962
24	1963
25	1964
26	1965
27	1966
28	1967
29	1968
30	1969
31	1970
32	1971
33	1972
34	1973
35	1974
36	1975
37	1976
38	1977
39	1978
40	1979
41	1980
42	1981
43	1982
44	1983
45	1984
46	1985
47	1986
48	1987
49	1988
50	1989
51	1990
52	1991
53	1992
54	1993
55	1994
56	1995
57	1996
58	1997
59	1998
60	1999
61	2000
62	2001
63	2002
64	2003
65	2004
66	2005
67	2006
68	2007
69	2008
70	2009
71	2010
72	2011
73	2012
74	2013
75	2014
76	2015
77	2016
78	2017
79	2018
80	2019
81	2020
82	2021
83	2022
84	2023
85	2024
86	2025
87	2026
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91	2030
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117	2056
118	2057
119	2058
120	2059
121	2060
122	2061
123	2062
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125	2064
126	2065
127	2066
128	2067
129	2068
130	2069
131	2070
132	2071
133	2072
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135	2074
136	2075
137	2076
138	2077
139	2078
140	2079
141	2080
142	2081
143	2082
144	2083
145	2084
146	2085
147	2086
148	2087
149	2088
150	2089
151	2090
152	2091
153	2092
154	2093
155	2094
156	2095
157	2096
158	2097
159	2098
160	2099

MONTH YEAR	JAN	FEB	MAR.	APR.	MAY	JUN	JUL	AUG.	SEP	OCT	NOV	DEC	ALL MONTHS
1951													ALL MONTHS 1951
1952													ALL MONTHS 1952
1953													ALL MONTHS 1953
1954													ALL MONTHS 1954
1955													ALL MONTHS 1955
1956													ALL MONTHS 1956
1957													ALL MONTHS 1957
1958													ALL MONTHS 1958
1959													ALL MONTHS 1959
1960													ALL MONTHS 1960
1961													ALL MONTHS 1961
1962													ALL MONTHS 1962
1963													ALL MONTHS 1963
1964													ALL MONTHS 1964
1965													ALL MONTHS 1965
1966													ALL MONTHS 1966
1967													ALL MONTHS 1967
1968													ALL MONTHS 1968
1969													ALL MONTHS 1969
1970													ALL MONTHS 1970
1971													ALL MONTHS 1971
1972													ALL MONTHS 1972
1973													ALL MONTHS 1973
1974													ALL MONTHS 1974
1975													ALL MONTHS 1975
1976													ALL MONTHS 1976
1977													ALL MONTHS 1977
1978													ALL MONTHS 1978
1979													ALL MONTHS 1979
1980													ALL MONTHS 1980
1981													ALL MONTHS 1981
1982													ALL MONTHS 1982
1983													ALL MONTHS 1983
1984													ALL MONTHS 1984
1985													ALL MONTHS 1985
1986													ALL MONTHS 1986
1987													ALL MONTHS 1987
1988													ALL MONTHS 1988
1989													ALL MONTHS 1989
1990													ALL MONTHS 1990
1991													ALL MONTHS 1991
1992													ALL MONTHS 1992
1993													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

FROM DAILY OBSERVATIONS

STATION                      STATION NAME                      YEARS                     

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1													
2													
3													
4													
5													
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93													
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95													
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97													
98													
99													
100													
MEAN													
S D													
TOTAL OBS													

## EXTREME VALUES

## STATICS

STATION NAME

YEARS

THE UNIVERSITY OF CHICAGO

SMOS



## EXTREME VALUES

[illegible]

YEARS

[illegible]

SMOS

## EXTREME VALUES

1800

YEARS

SMOS

# DAILY EXTREME AMOUNTS

4 - 1 - 1977

YEARS

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0	0	1977	4.0	101	1977
2	1.0	25	1977	0	0	1977
3	1.0	25	1977	0	0	1977
4	0	0	1977	0	0	1977
5	0	0	1977	0	0	1977
6	1.0	25	1977	0	0	1977
7	1.0	25	1977	0	0	1977
8	0	0	1977	0	0	1977
9	0	0	1977	0	0	1977
10	1.0	25	1977	0	0	1977
11	0	0	1977	0	0	1977
12	0	0	1977	0	0	1977
13	1.0	25	1977	0	0	1977
14	0	0	1977	0	0	1977
15	0	0	1977	0	0	1977
16	0	0	1977	0	0	1977
17	0	0	1977	0	0	1977
18	0	0	1977	0	0	1977
19	0	0	1977	0	0	1977
20	0	0	1977	0	0	1977
21	0	0	1977	0	0	1977
22	0	0	1977	0	0	1977
23	0	0	1977	0	0	1977
24	0	0	1977	0	0	1977
25	0	0	1977	0	0	1977
26	0	0	1977	0	0	1977
27	0	0	1977	0	0	1977
28	0	0	1977	0	0	1977
29	0	0	1977	0	0	1977
30	0	0	1977	0	0	1977
31	0	0	1977	0	0	1977
Monthly	0	0	1977	0	0	1977

MONTH

\* ALSO ON EARLIER YEARS  
T TRACE, AN AMOUNT TOO SMALL TO MEASURE  
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

# DAILY EXTREME AMOUNTS

STATION NAME: SERVICE DE L'ACHAUVANT  
 COUNTY: GUYANA  
 STATE: CAROLINA

YEARS

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.1	1	1-1-1977	0.1	3	
2	0.1	3	1-2-1977			
3	0.1	3	1-3-1977			
4	0.1	3	1-4-1977			
5	1.0	25	1-5-1977			
6	0.1	4	1-6-1977			
7	0.1	17	1-7-1977	5.0	127	1-7-1977
8	0.1	3	1-8-1977	3.1	79	1-8-1977
9	0.1	22	1-9-1977	3.1	79	1-9-1977
10	0.1	41	1-10-1977	2.0	51	1-10-1977
11	0.1	20	1-11-1977			
12	0.1	23	1-12-1977			
13	0.1	23	1-13-1977			
14	0.1	23	1-14-1977			
15	0.1	11	1-15-1977			
16	0.1	20	1-16-1977			
17	0.1	21	1-17-1977			
18	0.1	20	1-18-1977			
19	0.1	10	1-19-1977			
20	0.1	25	1-20-1977			
21	0.1	13	1-21-1977			
22	0.1	23	1-22-1977			
23	0.1	10	1-23-1977			
24	0.1	6	1-24-1977			
25	0.1	43	1-25-1977			
26	0.1	24	1-26-1977			
27	0.1	5	1-27-1977			
28	0.1	23	1-28-1977			
29	0.1	7	1-29-1977			
30	0.1		1-30-1977			
31	0.1		1-31-1977			
Monthly						

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.1	1	1-1-1977			
2	0.1	3	1-2-1977			
3	0.1	3	1-3-1977			
4	0.1	3	1-4-1977			
5	0.1	3	1-5-1977			
6	0.1	3	1-6-1977			
7	0.1	3	1-7-1977			
8	0.1	3	1-8-1977			
9	0.1	3	1-9-1977			
10	0.1	3	1-10-1977			
11	0.1	3	1-11-1977			
12	0.1	3	1-12-1977			
13	0.1	3	1-13-1977			
14	0.1	3	1-14-1977			
15	0.1	3	1-15-1977			
16	0.1	3	1-16-1977			
17	0.1	3	1-17-1977			
18	0.1	3	1-18-1977			
19	0.1	3	1-19-1977			
20	0.1	3	1-20-1977			
21	0.1	3	1-21-1977			
22	0.1	3	1-22-1977			
23	0.1	3	1-23-1977			
24	0.1	3	1-24-1977			
25	0.1	3	1-25-1977			
26	0.1	3	1-26-1977			
27	0.1	3	1-27-1977			
28	0.1	3	1-28-1977			
29	0.1	3	1-29-1977			
30	0.1	3	1-30-1977			
31	0.1	3	1-31-1977			
Monthly						

\* ALSO ON EARLIER YEARS  
 T TRACE, AN AMOUNT TOO SMALL TO MEASURE  
 BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

## DAILY EXTREME AMOUNTS

一、二、三、四、五、六、七、八、九、十、十一、十二、十三、十四、十五、十六、十七、十八、十九、二十、二十一、二十二、二十三、二十四、二十五、二十六、二十七、二十八、二十九、三十、三十一、三十二、三十三、三十四、三十五、三十六、三十七、三十八、三十九、四十、四十一、四十二、四十三、四十四、四十五、四十六、四十七、四十八、四十九、五十、五十一、五十二、五十三、五十四、五十五、五十六、五十七、五十八、五十九、六十、六十一、六十二、六十三、六十四、六十五、六十六、六十七、六十八、六十九、七十、七十一、七十二、七十三、七十四、七十五、七十六、七十七、七十八、七十九、八十、八十一、八十二、八十三、八十四、八十五、八十六、八十七、八十八、八十九、九十、九十一、九十二、九十三、九十四、九十五、九十六、九十七、九十八、九十九、一百。

YEARS

STATION NAME

# MONTE

MONTH

Day	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	FEET	INCH	DATE	INCHES	MM	DATE
1	•	•	1-28			
2	•	•	1-29			
3	•	•	1-29			
4	•	•	1-29			
5	•	•	1-29			
6	•	•	1-29			
7	•	•	1-29			
8	•	•	1-29			
9	•	•	1-29			
10	•	•	1-29			
11	•	•	1-29			
12	•	•	1-29			
13	•	•	1-29			
14	•	•	1-29			
15	•	•	1-29			
16	•	•	1-29			
17	•	•	1-29			
18	•	•	1-29			
19	•	•	1-29			
20	•	•	1-29			
21	•	•	1-29			
22	•	•	1-29			
23	•	•	1-29			
24	•	•	1-29			
25	•	•	1-29			
26	•	•	1-29			
27	•	•	1-29			
28	•	•	1-29			
29	•	•	1-29			
30	•	•	1-29			
31	•	•	1-29			
Monthly	•	•	1-29			

DAY	PRECIPITATION GREATEST				SNOWFALL GREATEST			
	INCHES	MM	DATE		INCHES	MM	DATE	
1	1.6	43	1855					
2	•	56	1842					
3	•	22	1852					
4	•	13	1850					
5	• 5	23	1875					
6	• 7	2	1877					
7	• 4	17	1877					
8	• 1	26	1855					
9	• 7	22	1877					
10	• 5	14	1845					
11	•	23	1870					
12	• 7	75	1858					
13	1.0	35	1868					
14	1.5	37	1862					
15	•	13	1828					
16	1.4	27	1865					
17	•	7	1872					
18	• 9	25	187					
19	1.7	5	1845					
20	•	23	1877					
21	1.0	35	187					
22	• 7	6	1872					
23	• 7	23	1870					
24	1.0	26	1860					
25	• 4	14	1861					
26	• 4	11	1860					
27	•	1	1861					
28	• 4	10	1877					
29	• 5	144	1872					
30	•	17	1857					
31								
Monthly	• 55	149	1870					

• ALSO ON EARLIER YEARS

T TRACE. AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

NAVY WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

一、二、三、四、五、六、七、八、九、十、十一、十二、十三、十四、十五、十六、十七、十八、十九、二十、二十一、二十二、二十三、二十四、二十五、二十六、二十七、二十八、二十九、三十、三十一、三十二、三十三、三十四、三十五、三十六、三十七、三十八、三十九、四十、四十一、四十二、四十三、四十四、四十五、四十六、四十七、四十八、四十九、五十、五十一、五十二、五十三、五十四、五十五、五十六、五十七、五十八、五十九、六十、六十一、六十二、六十三、六十四、六十五、六十六、六十七、六十八、六十九、七十、七十一、七十二、七十三、七十四、七十五、七十六、七十七、七十八、七十九、八十、八十一、八十二、八十三、八十四、八十五、八十六、八十七、八十八、八十九、九十、九十一、九十二、九十三、九十四、九十五、九十六、九十七、九十八、九十九、一百。

YF-442S

10

MONTH:

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0		194			
2	0		197			
3	0		4 197			
4	0		73 191			
5	0.1		194			
6	0		197			
7	0		37 193			
8	0		6 197			
9	0		12 171			
10	0		23 184			
11	0		193			
12	0		194			
13	0		4 197			
14	0		35 197			
15	0		197			
16	0		197			
17	0		194			
18	0		11 194			
19	0		75 184			
20	0		75 191			
21	0.1		197			
22	0		7 194			
23	0		6 194			
24	0		13 177			
25	0		1 177			
26	0		2 196			
27	0		1 193			
28	0		5 193			
29	0		7 196			
30	0		171			
31	0		15 177			
32	0		4 176			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.0	7	1877			
2	0.4		1877			
3	1.1	14	1877			
4	0.0	23	1878			
5	0.1	25	1878			
6	0.0	1	1878			
7	0.3	14	1846			
8	1.0	24	1881			
9	0.0	67	1884			
10	0.0	2	1887			
11	0.0	21	1888			
12	0.0	27	1888			
13	0.0	1	1888			
14	0.0	17	1878			
15	0.0	6	1877			
16	0.0	12	1878			
17	0.0	14	1878			
18	0.0	24	1888			
19	0.1	12	188			
20	1.0	2	1888			
21	1.0	25	1888			
22	1.0	27	1846			
23	0.0	55	187			
24	1.0	48	1878			
25	0.0	28	1888			
26	0.0	14	1878			
27	0.7	73	1881			
28	0.0	61	1878			
29	0.0	23	1846			
30	0.0	18	1878			
31	0.2	5	1878			
Monthly	0.1	10	1888			

• ALSO ON EARLIER YEARS

IT TRACE. AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

**DIRNA VOCEANMET-SMOS**

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

1 4 1 1 2 1 1 1 1 1

STATION NAME

YEARS

MONTH

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.1	2.5	1977			
2	0.1	2.5	1977			
3	0.1	2.5	1977			
4	0.1	2.5	1977			
5	0.1	2.5	1977			
6	0.1	2.5	1977			
7	0.1	2.5	1977			
8	0.1	2.5	1977			
9	0.1	2.5	1977			
10	0.1	2.5	1977			
11	0.1	2.5	1977			
12	0.1	2.5	1977			
13	0.1	2.5	1977			
14	0.1	2.5	1977			
15	0.1	2.5	1977			
16	0.1	2.5	1977			
17	0.1	2.5	1977			
18	0.1	2.5	1977			
19	0.1	2.5	1977			
20	0.1	2.5	1977			
21	0.1	2.5	1977			
22	0.1	2.5	1977			
23	0.1	2.5	1977			
24	0.1	2.5	1977			
25	0.1	2.5	1977			
26	0.1	2.5	1977			
27	0.1	2.5	1977			
28	0.1	2.5	1977			
29	0.1	2.5	1977			
30	0.1	2.5	1977			
31	0.1	2.5	1977			
Monthly	0.1	2.5	1977			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.1	27.9	1977			
2	1.1	27.9	1977			
3	1.1	27.9	1977			
4	1.1	27.9	1977			
5	1.1	27.9	1977			
6	1.1	27.9	1977			
7	1.1	27.9	1977			
8	1.1	27.9	1977			
9	1.1	27.9	1977			
10	1.1	27.9	1977			
11	1.1	27.9	1977			
12	1.1	27.9	1977			
13	1.1	27.9	1977			
14	1.1	27.9	1977			
15	1.1	27.9	1977			
16	1.1	27.9	1977			
17	1.1	27.9	1977			
18	1.1	27.9	1977			
19	1.1	27.9	1977			
20	1.1	27.9	1977			
21	1.1	27.9	1977			
22	1.1	27.9	1977			
23	1.1	27.9	1977			
24	1.1	27.9	1977			
25	1.1	27.9	1977			
26	1.1	27.9	1977			
27	1.1	27.9	1977			
28	1.1	27.9	1977			
29	1.1	27.9	1977			
30	1.1	27.9	1977			
31	1.1	27.9	1977			
Monthly	1.1	27.9	1977			

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVY WEATHER SERVICE DETACHMENT  
ASHEVILLE NORTH CAROLINA

# DAILY EXTREME AMOUNTS

1 4 -1 12 1955-57

STATION NAME

YEARS

PRECIPITATION  
MONTH

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.1	2.5	1955			
2	0.1	13	1974			
3	1.0	34	1967			
4	1.0	34	1955			
5	0.1	23	1973			
6	0.1	23	1973			
7	1.0	25	1955			
8	0.1	23	1973			
9	0.1	73	1973			
10	1.0	26	1969			
11	1.0	26	1955			
12	0.1	26	1967			
13	0.1	23	1966			
14	1.0	31	1966			
15	0.1	24	1951			
16	1.0	40	1974			
17	0.1	9	1973			
18	0.1	20	1977			
19	0.1	11	1970			
20	1.0	33	1951			
21	0.1	73	1977			
22	1.0	34	1966			
23	0.1	7	1969			
24	0.1	27	1955			
25	0.1	1	1973			
26	1.0	20	1973			
27	0.1	11	1940			
28	1.0	23	1967			
29	0.1	77	1940			
30	0.1	23	1955			
31	0.1	17	1973			
Monthly		77	1966			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.1	25	1951			1955
2	0.1	13	1974	0.1	5	1955
3	1.0	34	1967			
4	1.0	34	1955			
5	0.1	23	1973			
6	0.1	23	1973			
7	1.0	25	1955	1.0	25	1977
8	0.1	23	1973			
9	0.1	73	1973	0.1	61	1955
10	1.0	26	1969			
11	1.0	26	1955	2.0	61	1945
12	0.1	26	1967	1.0	76	1955
13	0.1	23	1966	4.0	112	1956
14	1.0	31	1966	6.0	152	1951
15	0.1	24	1951	6.0	152	1945
16	1.0	40	1974	4.0	109	1951
17	0.1	9	1973	2.0	64	1973
18	0.1	20	1977	1.0	23	1951
19	0.1	11	1970	5.0	132	1945
20	1.0	33	1951	3.0	215	1966
21	0.1	73	1977	1.0	72	1956
22	1.0	34	1966	1.0	43	1973
23	0.1	7	1969	0.1	20	1955
24	0.1	27	1955	1.0	25	1946
25	0.1	1	1973	0.1	67	1969
26	1.0	20	1973	7.0	156	1955
27	0.1	11	1940			
28	1.0	23	1967			
29	0.1	77	1940			
30	0.1	23	1955			
31	0.1	17	1973	4.0	109	1955
Monthly		77	1966	11.0	25	1946

\* ALSO ON EARLIER YEARS  
T TRACE, AN AMOUNT TOO SMALL TO MEASURE  
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD



## EXTREME VALUES

$$+ R(\text{ON})DAI + (HSE + H^+ + 100)S,$$

WE ABC

[illegible]

SMOS

## EXTREME VALUES

FROM DAILY OBSERVATIONS.

STATION NAME

YEARS

# THE SOUTHERN

SMOS

## EXTREME VALUES

FROM DAILY OBSERVATIONS.

STATION	STATION NAME	YEARS
4-60, 50-2		

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

[illegible]

SMOS

## EXTREME VALUES

3.  $\Delta C E_{\text{day}}$  (FROM DAILY OBSERVATIONS)

STATION	STATION NAME	YEARS
1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

[illegible]

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1937	27 27	30 27	30 27	30 27	27 27	47 30	20 26	19 26	19 26	24 26		31 27	21 27
1938	10 16		5 16		3 16	4 16	15 16	1 16	11 16	25 16		26 16	21 16
1939							27 49				22 21	27 21	21 21
1940							24 24				22 22	27 27	21 27
1941	27 33	30 33	30 33	31 33	21 36	42 38	27 37	16 37	12 37	19 37	23 38	34 38	21 38
1942	10 16		11 16	20 16	13 16	23 16	26 16	12 16	12 16	27 16	17 17	26 17	21 17
1943	27 32	30 32	30 32	30 32	20 34	41 36	30 36	17 36	21 36	21 36	21 36	34 36	21 36
1944	10 16	14 16	27 16		24 16	4 16	2 16	1 16	12 16		10 16	24 16	21 16
1945													
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SMOS

NAVAL WEATHER BATTALION  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									1.0	1.0
NNE			1.0									1.0	1.0
NE		1.0	1.0	1.0								3.0	1.0
ENE		1.0	1.0	1.0	1.0							4.0	1.0
E	1.0	1.0	1.0	1.0								4.0	1.0
ESE		1.0	1.0	1.0								3.0	1.0
SE		1.0	1.0									2.0	1.0
SSE		1.0	1.0									2.0	1.0
S	1.0		1.0									2.0	1.0
SSW	1.0	1.0	1.0	1.0								4.0	1.0
SW	1.0	1.0	1.0	1.0	1.0							5.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0							5.0	1.0
W	1.0	1.0	1.0	1.0	1.0							5.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0							5.0	1.0
NW	1.0	1.0	1.0	1.0	1.0							5.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0							5.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	11.0	7.1

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (L S T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0.1
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0.7
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	11.0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0.1
SW	0	0	0	0	0	0	0	0	0	0	0	0	0.7
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS 11 5 T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	1.0	1.0	•								•	•
NNE	•	•	1.0									•	•
NE	•	•	1.0									•	•
ENE	•	•	1.0			•						•	•
E	1.0	1.0	1.0									•	•
ESE	•	1.0										•	•
SE	•	1.0	•									•	•
SSE	•	•										•	•
S	•	1.0	•			•						•	•
SSW	•	1.0	•		•	•						•	•
SW	•	1.0	•		•							•	•
WSW	•	1.0	•	•	•							•	•
W	•	•	•	1.0		•						•	•
WNW	•	•	•	•								•	•
NW	•	•	•	•								•	•
NNW	•	•	1.0	•								•	•
VARBL													
CALM												17.0	
	1.0	1.0	1.0	1.0	1.0	1.0						17.0	

TOTAL NUMBER OF OBSERVATIONS

2

NAVY AND AIR FORCE SERVICE  
OFFICERS AND CREW  
AND PASSENGERS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS 11 5 T

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•								•	7.2
NNE	•	•	•	•								1.0	4.0
NE	•	1.0	1.0	•								3.0	7.5
ENE	•	1.0	1.0			•						3.0	7.7
E	•	1.0	•	•								•	4.0
ESE	•	1.0	•	•								4.0	•
SE	•	1.0	•									1.0	6.2
SSE	•	•										1.0	4.2
S	1.0	1.0	1.0									1.0	4.2
SSW	1.0	1.0	•	•								3.0	8.1
SW	•	1.0	1.0	•		•						7.0	7.8
WSW	1.0	1.0	•	•	•	•						3.0	12.0
W	•	3.0	1.0	1.0	•	•						10.0	12.0
WNW	1.0	1.0	•	1.0	•							1.0	12.0
NW	•	1.0	•	•	•							1.0	12.0
NNW	1.0	•	1.0	1.0	•							7.0	7.8
VARBL													
CALM												7.0	
	1.0	•	1.0	1.0	•	1.0						10.0	7.4

TOTAL NUMBER OF OBSERVATIONS

SMOS



NATIONAL WEATHER SERVICE  
 STATION NAME  
 ADAMSVILLE, MO

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS 11 5 T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N				1.								1.	1.
NNE												1.	1.
NE												1.	1.
ENE												1.	1.
E												1.	1.
ESE												1.	1.
SE												1.	1.
SSE												1.	1.
S												1.	1.
SSW												1.	1.
SW												1.	1.
WSW												1.	1.
W												1.	1.
WNW												1.	1.
NW												1.	1.
NNW												1.	1.
VARBL												1.	1.
CALM												1.	1.
												1.	1.

TOTAL NUMBER OF OBSERVATIONS

# 2 SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ YEARS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS (L S T) \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•								•	1.7
NNE	•	•	•	•								•	1.7
NE	•	•	•	•								1.0	1.7
ENE	•	•	•	•								•	1.7
E	•	•	•	•								•	1.7
ESE												•	1.7
SE	•	•	•	•								•	1.7
SSE	•	•	•	•								1.0	1.7
S	•	•	•	•								•	1.7
SSW	•	•	•	•								•	1.7
SW	•	•	•	•								•	1.7
WSW	•	•	•	•								•	1.7
W	•	•	•	•								•	1.7
WNW	•	•	•	•								•	1.7
NW	•	•	•	•								•	1.7
NNW	•	•	•	•								•	1.7
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

STATION NAME \_\_\_\_\_ CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

HOURS (L S T) \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	1.0									•	•
NNE		•	•									1.0	•
NE	•	•	•									1.0	•
ENE	•	1.0	•	•								•	•
E	•	•	1.0	•								•	•
ESE	•	•	•									1.0	•
SE		•	•									1.0	•
SSE	•	•	•		•							1.0	•
S	•	•	•	•								•	•
SSW	•	•	1.0									•	•
SW	•	•	1.0	•	•							•	•
WSW	•	•	1.0	1.0	•							•	•
W	•	•	•	1.0	•							1.0	•
WNW	•	•	•	1.0	•	•						•	•
NW	•	1.0	•	1.0	•	•						•	•
NNW	•	•	•	1.0	•	•						•	•
VARBL												•	•
CALM												•	•
	1.1	•	1.1	2.0	•	•						1.0	•

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME YEARS MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												1.0	3.4
NNE												1.0	4.6
NE												1.0	5.6
ENE												1.0	4.7
E												1.0	4.6
ESE												1.0	3.3
SE												1.0	4.0
SSE												1.0	3.0
S												1.0	3.0
SSW												1.0	3.0
SW												1.0	4.3
WSW												1.0	3.0
W												1.0	3.0
WNW												1.0	3.0
NW												1.0	3.0
NNW												1.0	3.0
VARBL												1.0	3.0
CALM												1.0	3.0
												1.0	3.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHESVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

HOURE (L S T) \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
MNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS LL ST \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	0	0	1.1								1.7	1.1
NNE	1.1	1.1	1.1	0								2.0	1.1
NE	0	0.1	1.1									2.0	1.1
ENE	0	1.1	1.1	0								1.1	1.1
E	1.1	1.1	1.1									1.1	1.1
ESE	0	1.1	1.1									1.1	1.1
SE		0										0	1.1
SSE												0	1.1
S	0	0	0	0								1.1	1.1
SSW	1.1	1.1	1.1	0								3.0	1.1
SW	1.1	1.1	1.1	0								3.0	1.1
WSW	1.1	0	1.1	0								1.7	1.1
W	0	0	1.1	1.1								4.0	1.1
WNW	1.1	1.1	1.1	1.1								7.0	1.1
NW	0	0	0	1.1								1.1	1.1
NNW	0	0	0	1.1	0							1.1	1.1
VARBL													
CALM													
	1.1	2.0	2.0	0	0							1.0	1.1

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_

HOURS (LST): \_\_\_\_\_

CLASS: \_\_\_\_\_

CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								1.0	1.0
NNE	1.0	1.0	1.0	1.0								1.0	1.0
NE	1.0	1.0	1.0	1.0								1.0	1.0
ENE	1.0	1.0	1.0	1.0								1.0	1.0
E	1.0	1.0	1.0	1.0	1.0							1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
S	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
W	1.0	1.0	1.0	1.0	1.0							1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ STATION: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_

CLASS: \_\_\_\_\_ HOURS (L.S.): \_\_\_\_\_

CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0.1								5.7	5.3
NNE	0	0	1.0	0.7								5.7	7.1
NE	1.1	0	0	0.6								2.8	5.7
ENE		1.0	1.0									3.0	6.0
E	1.0	0.0	0	0.4								3.0	6.0
ESE	0	0	0									1.0	7.2
SE	0	0										0	2.0
SSE	0	0	1.0									1.0	7.4
S	0	0	0	0.7	0.4							2.0	7.3
SSW	1.1	1.0	0									7.0	6.0
SW	0	0	0	0.4								3.0	7.0
WSW	0	0	1.0	0.7	0.4							1.0	7.4
W	1.0	0.0	0.0	0.7	0.4	0.4						12.1	6.7
WNW	1.0	0.0	0.0	0.0								14.0	7.0
NW	0	0	0	1.0	0.4							6.0	6.2
NNW	1.1	0.0	0.0	0.0	0.4							12.0	6.0
VARBL													
CALM												5.7	
	17.0	10.0	3.0	10.7	1.0	0.0						10.0	7.4

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (L.S.T.) \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
NNE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
NE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
ENE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
E	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
ESE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SSE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
S	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SSW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
SW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
WSW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
W	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
WNW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
NW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
NNW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
VARBL	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
CALM	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0.4
NNE	0	0	1.0	0	0	0	0	0	0	0	0	0	1.1
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	1.0	.7	.4							1.0	1.1
NNE	.0	1.0	1.0	.4								1.0	1.1
NE	.0	.0	.0									1.0	1.1
ENE	.0	1.0										1.0	1.1
E	.0	1.0	.0	.7								1.0	1.1
ESE	.0	1.0	1.0									1.0	1.1
SE	.0	.0	.0									1.0	1.1
SSE	.0	.0	.0									1.0	1.1
S	.0	.0	.0	1.0								1.0	1.1
SSW	.0	1.0	.0	.7								1.0	1.1
SW	.0	1.0	.0									1.0	1.1
WSW	.0	.0	.0									1.0	1.1
W	.0	.0	.0	.7								1.0	1.1
WNW	.0	1.0	.0	.7	.6							1.0	1.1
NW	.0	.0	.0	.7								1.0	1.1
NNW	.0	.0	.0	.7	.6							1.0	1.1
VARBL													
CALM													
	1.0	7.0	10.0	7.0	1.0							1.0	1.1

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_

STATION \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									0.0	0.0
NNE	0.0	1.0	1.0									0.0	0.0
NE	0.0	1.0	1.0	0.0								0.0	0.0
ENE	0.0	1.0	1.0									0.0	0.0
E	0.0	1.0	1.0	0.0								0.0	0.0
ESE	0.0	1.0	1.0									0.0	0.0
SE	0.0	1.0	1.0									0.0	0.0
SSE	0.0	1.0	1.0									0.0	0.0
S	0.0	1.0	1.0									0.0	0.0
SSW	1.0	1.0	1.0	0.0								0.0	0.0
SW	1.0	1.0	1.0									0.0	0.0
WSW	0.0	1.0	1.0									0.0	0.0
W	1.0	1.0	1.0	0.0	0.0							0.0	0.0
WNW	1.0	1.0	1.0	0.0	0.0							0.0	0.0
NW	1.0	1.0	1.0	1.0	0.0							0.0	0.0
NNW	0.0	1.0	1.0	1.0	0.0							0.0	0.0
VARBL													
CALM													
	1.0	1.0	1.0	0.0	1.0							1.0	0.1

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•	•							•	•
NNE	•	•	•	•	•							•	•
NE	•	•	•	•	•							•	•
ENE	•	•	•	•	•							•	•
E	•	•	•	•	•							•	•
ESE	•	•	•	•	•							•	•
SE	•	•	•	•	•							•	•
SSE	•	•	•	•	•							•	•
S	•	•	•	•	•							•	•
SSW	•	•	•	•	•							•	•
SW	•	•	•	•	•							•	•
WSW	•	•	•	•	•							•	•
W	•	•	•	•	•							•	•
WNW	•	•	•	•	•							•	•
NW	•	•	•	•	•							•	•
NNW	•	•	•	•	•							•	•
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

HOURS (L S T)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	.	.	.	.	.	.	.	.	.	.	.
NNE	.	.	.	.	.	.	.	.	.	.	.	.	.
NE	.	.	.	.	.	.	.	.	.	.	.	.	.
ENE	.	.	.	.	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.	.	.	.	.
ESE	.	.	.	.	.	.	.	.	.	.	.	.	.
SE	.	.	.	.	.	.	.	.	.	.	.	.	.
SSE	.	.	.	.	.	.	.	.	.	.	.	.	.
S	.	.	.	.	.	.	.	.	.	.	.	.	.
SSW	.	.	.	.	.	.	.	.	.	.	.	.	.
SW	.	.	.	.	.	.	.	.	.	.	.	.	.
WSW	.	.	.	.	.	.	.	.	.	.	.	.	.
W	.	.	.	.	.	.	.	.	.	.	.	.	.
WNW	.	.	.	.	.	.	.	.	.	.	.	.	.
NW	.	.	.	.	.	.	.	.	.	.	.	.	.
NNW	.	.	.	.	.	.	.	.	.	.	.	.	.
VARBL	.	.	.	.	.	.	.	.	.	.	.	.	.
CALM	.	.	.	.	.	.	.	.	.	.	.	.	.

TOTAL NUMBER OF OBSERVATIONS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME YEARS MONTH

HOURS (L S T)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	1 •	1 •	•								• •	• •
NNE	•	1 •	1 •									• •	• •
NE	•	1 •	1 •	1 •								• •	• •
ENE	•	•	•									• •	• •
E	•	1 •	4 •	•								• •	• •
ESE	•	1 •	1 •	•								• •	• •
SE	1 •	1 •	•	•								• •	• •
SSE	•	1 •	•									• •	• •
S	•	1 •	•	•								• •	• •
SSW	•	•	1 •	•								• •	• •
SW	•	•	•	•	•							• •	• •
WSW	•	•	•	•	•							• •	• •
W	•	1 •	•	1 •	•							• •	• •
WNW	•	•	•	•	•							• •	• •
NW	1 •	•	•	1 •	•	•						• •	• •
NNW	•	1 •	•	1 •	•							• •	• •
VARBL													
CALM													
	1 •	1 •	1 •	1 •	1 •	•						1 •	•

TOTAL NUMBER OF OBSERVATIONS

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHKEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.0	1.0	0.0	0.0							0.0	1.0
NNE	0	1.0	1.0	0.0	0.0							0.0	1.0
NE	0	1.0	1.0	0.0	0.0							0.0	1.0
ENE	0	1.0	1.0	0.0	0.0							0.0	1.0
E	0	1.0	1.0	1.0	0.0							0.0	1.0
ESE	0	1.0	1.0	0.0	0.0							0.0	1.0
SE	0	0	0	0	0							0.0	1.0
SSE	0	1.0	1.0	0.0	0.0							0.0	1.0
S	0	1.0	1.0	0.0	0.0							0.0	1.0
SSW	0	0	1.0	0.0	0.0							0.0	1.0
SW	0	1.0	1.0	1.0	0.0							0.0	1.0
WSW	0	1.0	1.0	0.0	0.0							0.0	1.0
W	0	0	1.0	0.0	1.0	0.0						0.0	1.0
WNW	0	0	1.0	0.0	0.0	0.0						0.0	1.0
NW	0	1.0	1.0	1.0	1.0	0.0						0.0	1.0
NNW	0	1.0	1.0	0.0	0.0	0.0						0.0	1.0
VARBL													
CALM													
	0	10.0	30.0	20.0	10.0	0						10.0	0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N				1.0		1.0						1.0	1.0
NNE			1.0	1.0								1.0	1.0
NE			1.0	1.0								1.0	1.0
ENE			1.0	1.0								1.0	1.0
E			1.0	1.0	1.0							1.0	1.0
ESE			1.0	1.0	1.0							1.0	1.0
SE			1.0	1.0	1.0							1.0	1.0
SSE			1.0	1.0	1.0							1.0	1.0
S			1.0	1.0	1.0							1.0	1.0
SSW			1.0	1.0	1.0							1.0	1.0
SW			1.0	1.0	1.0							1.0	1.0
WSW			1.0	1.0	1.0							1.0	1.0
W			1.0	1.0	1.0							1.0	1.0
WNW			1.0	1.0	1.0							1.0	1.0
NW			1.0	1.0	1.0							1.0	1.0
NNW			1.0	1.0	1.0							1.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NNE	1.0	1.0	1.0	1.0	1.0							3.0	7.0
NE	1.0	1.0	1.0	1.0	1.0							1.0	7.0
ENE	1.0	1.0	1.0	1.0	1.0							1.0	10.4
E	1.0	1.0	1.0	1.0	1.0							6.0	7.7
ESE	1.0	1.0	1.0	1.0	1.0							4.0	7.0
SE	1.0	1.0	1.0	1.0	1.0							3.0	6.4
SSE	1.0	1.0	1.0	1.0	1.0							1.0	7.0
S	1.0	1.0	1.0	1.0	1.0							7.0	7.0
SSW	1.0	1.0	1.0	1.0	1.0							7.0	6.4
SW	1.0	1.0	1.0	1.0	1.0							3.0	7.0
WSW	1.0	1.0	1.0	1.0	1.0							6.0	7.0
W	1.0	1.0	1.0	1.0	1.0							13.0	1.1
WNW	1.0	1.0	1.0	1.0	1.0							1.0	11.0
NW	1.0	1.0	1.0	1.0	1.0							13.0	1.1
NNW	1.0	1.0	1.0	1.0	1.0							7.0	1.1
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ YEARS \_\_\_\_\_  
 HOURS (LST) \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•								•	•
NNE	•	•	•	•								•	•
NE	•	•	•	•								•	•
ENE	•	•	•	•								•	•
E	•	•	•	•								•	•
ESE	•	•	•	•								•	•
SE	•	•	•	•								•	•
SSE	•	•	•	•								•	•
S	•	•	•	•	•							•	•
SSW	•	•	•	•	•							•	•
SW	•	•	•	•	•							•	•
WSW	•	•	•	•	•							•	•
W	•	•	•	•	•							•	•
WNW	•	•	•	•	•							•	•
NW	•	•	•	•	•							•	•
NNW	•	•	•	•	•							•	•
VARBL													
CALM													
	1.0	1.0	2.0	1.0	1.0	0.7						1.0	1.7

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

NORTH

HOURS LST

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	7.0
NNE	0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.3
NE	0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.0
ENE	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	6.0
E	0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	7.1
ESE	0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
SE	0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	7.1
SSE	0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	6.9
S	1.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	6.0
SSW	0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
SW	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
WSW	0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
W	0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
WNW	0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
NW	0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
NNW	0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
VARBL													
CALM												10.0	
	1.0	10.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	6.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_  
 CLASS: \_\_\_\_\_  
 CONDITION: \_\_\_\_\_  
 HOUR: (L.S.T.) \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	1.0	1.0	•	•	•	•	•	•	•	•	7.0
NNE	•	1.0	1.0	•	•	•	•	•	•	•	•	•	•
NE	•	•	1.0	•	•	•	•	•	•	•	•	•	•
ENE	•	1.0	•	•	•	•	•	•	•	•	•	•	•
E	1.0	1.0	•	•	•	•	•	•	•	•	•	•	•
ESE	•	1.0	1.0	•	•	•	•	•	•	•	•	•	•
SE	•	1.0	1.0	•	•	•	•	•	•	•	•	•	•
SSE	•	1.0	1.0	•	•	•	•	•	•	•	•	•	•
S	•	1.0	1.0	•	•	•	•	•	•	•	•	•	•
SSW	•	1.0	1.0	•	•	•	•	•	•	•	•	•	•
SW	•	1.0	1.0	•	•	•	•	•	•	•	•	•	•
WSW	•	1.0	1.0	•	•	•	•	•	•	•	•	•	•
W	1.0	2.0	1.0	2.0	•	•	•	•	•	•	•	•	•
WNW	1.0	2.0	1.0	2.0	•	•	•	•	•	•	•	•	•
NW	1.0	2.0	1.0	2.0	•	•	•	•	•	•	•	•	•
NNW	•	•	•	•	•	•	•	•	•	•	•	•	•
VARBL	•	•	•	•	•	•	•	•	•	•	•	•	•
CALM	•	•	•	•	•	•	•	•	•	•	•	•	•
	1.0	2.0	2.0	15.0	2.0	•	•	•	•	•	•	15.0	7.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	1.7	1.7								1.7	1.7
NNE	1.7	1.7	1.7									1.7	1.7
NE	1.7	1.7	1.7									1.7	1.7
ENE	1.7	1.7	1.7									1.7	1.7
E	1.7	1.7	1.7	1.7								1.7	1.7
ESE	1.7	1.7	1.7	1.7								1.7	1.7
SE	1.7	1.7	1.7	1.7								1.7	1.7
SSE	1.7	1.7	1.7	1.7								1.7	1.7
S	1.7	1.7	1.7	1.7								1.7	1.7
SSW	1.7	1.7	1.7	1.7								1.7	1.7
SW	1.7	1.7	1.7	1.7								1.7	1.7
WSW	1.7	1.7	1.7	1.7								1.7	1.7
W	1.7	1.7	1.7	1.7								1.7	1.7
WNW	1.7	1.7	1.7	1.7								1.7	1.7
NW	1.7	1.7	1.7	1.7								1.7	1.7
NNW	1.7	1.7	1.7	1.7								1.7	1.7
VARBL													
CALM													
	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

TOTAL NUMBER OF OBSERVATIONS

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ MONTH: \_\_\_\_\_

STATION: \_\_\_\_\_ YEARS: \_\_\_\_\_

CLASS: \_\_\_\_\_

CONDITION: \_\_\_\_\_

HOURE (LST): \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								3.0	3.0
NNE	1.0	1.0	1.0	1.0								4.0	4.0
NE	1.0	1.0	1.0	1.0								5.0	5.0
ENE	1.0	1.0	1.0	1.0								6.0	6.0
E	1.0	1.0	1.0	1.0								7.0	7.0
ESE	1.0	1.0	1.0	1.0								8.0	8.0
SE	1.0	1.0	1.0	1.0								9.0	9.0
SSE	1.0	1.0	1.0	1.0								10.0	10.0
S	1.0	1.0	1.0	1.0								11.0	11.0
SSW	1.0	1.0	1.0	1.0								12.0	12.0
SW	1.0	1.0	1.0	1.0								13.0	13.0
WSW	1.0	1.0	1.0	1.0								14.0	14.0
W	1.0	1.0	1.0	1.0								15.0	15.0
WNW	1.0	1.0	1.0	1.0								16.0	16.0
NW	1.0	1.0	1.0	1.0								17.0	17.0
NNW	1.0	1.0	1.0	1.0								18.0	18.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

STATION

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								0.7	1.0
NNE	1.0	1.0	1.0	1.0								1.0	1.0
NE	1.0	1.0	1.0	1.0								1.0	1.0
ENE	1.0	1.0	1.0	1.0								1.0	1.0
E	1.0	1.0	1.0	1.0	1.0							1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
S	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
W	1.0	1.0	1.0	1.0	1.0							1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
VARBL	1.0	1.0	1.0	1.0	1.0							1.0	1.0
CALM	1.0	1.0	1.0	1.0	1.0							1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.0	1.0
NNE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	1.0
NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ENE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.0	1.0
E	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	1.0
W	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VARBL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CALM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
OFFICE OF THE  
ADJUTANT GENERAL

STATION

STATION NAME

YEARS

MONTH

HOURS LST

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
			HOURS 1 L S T
		CLASS	
		CONDITION	

[illegible]

### TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS LL ST

CLAS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

AD-A150 437

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
WILLOW GROVE PENNSYLVANIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

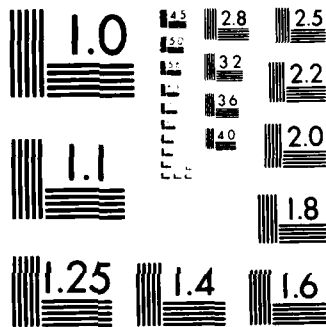
2/4

UNCLASSIFIED

F/G 4/2

NL

A 10x10 grid of squares, with the top-left square missing, representing a 10x10 grid with a 1x1 hole.



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS 1963 A



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (L S T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								7.0	7.0
NNE	1.0	1.0	1.0	1.0								7.0	7.0
NE	1.0	1.0	1.0	1.0								7.0	7.0
ENE	1.0	1.0	1.0	1.0								7.0	7.0
E	1.0	1.0	1.0	1.0								7.0	7.0
ESE	1.0	1.0	1.0	1.0								7.0	7.0
SE	1.0	1.0	1.0	1.0								7.0	7.0
SSE	1.0	1.0	1.0	1.0								7.0	7.0
S	1.0	1.0	1.0	1.0								7.0	7.0
SSW	1.0	1.0	1.0	1.0								7.0	7.0
SW	1.0	1.0	1.0	1.0								7.0	7.0
WSW	1.0	1.0	1.0	1.0								7.0	7.0
W	1.0	1.0	1.0	1.0								7.0	7.0
WNW	1.0	1.0	1.0	1.0								7.0	7.0
NW	1.0	1.0	1.0	1.0								7.0	7.0
NNW	1.0	1.0	1.0	1.0								7.0	7.0
VARBL													
CALM												14.0	
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	119.0	1.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

ALL SEASONS

CLASS

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.7	2.0	1.7	0.0							1.0	1.1
NNE	0	1.0	1.7	0.0	0.0							0.0	7.2
NE	0	0	0	0.1								1.0	1.2
ENE	0	0.7	0	0.0								0.0	1.0
E	0	0	2.1	0.6	0.0							1.0	1.0
ESE	0	1.0	1.0	0.0								7.0	7.0
SE	0	1.1	0	0.0								0.0	1.7
SSE	0	1.1	0	0.0								0.0	1.7
S	0	1.7	1.1	0.7								4.7	7.1
SSW	0	1.0	2.0	1.0	0.1							0.0	7.0
SW	0	1.7	1.0	0.0	0.0							0.0	1.7
WSW	1.0	1.0	1.0	0.0	0.1							0.0	1.0
W	1.0	4.1	2.0	1.0	0.7	0.0						0.0	5.0
WNW	1.0	2.4	2.0	2.3	0.3	0.0						10.0	1.3
NW	1.0	2.4	2.0	2.7	0.4	0.0						11.0	1.0
NNW	0	2.0	2.0	2.0	0.0	0.1						0.0	2.4
VARB													
CALM												11.0	
	12.0	20.0	20.0	16.0	0.0	0.0	0.0					100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

740

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ STATION NUMBER: \_\_\_\_\_

DATE: \_\_\_\_\_ MONTH: MAY YEAR: \_\_\_\_\_

TIME: \_\_\_\_\_ HOURS (LST): \_\_\_\_\_

CLASS: \_\_\_\_\_

CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	2.0	1.0	0.0								6.1	5.3
NNE	0.0	0.0	0.0									3.0	4.1
NE	0.0	1.0	0.0									2.0	4.6
ENE	0.0	0.0	0.0	0.0								1.3	7.3
E	1.0	0.0	0.0	1.0								5.0	5.5
ESE	0.0	1.0	0.0	0.0								4.5	4.7
SE	0.0	1.0	1.0									3.0	6.3
SSE	0.0	0.0										1.7	3.3
S	0.0	2.0	1.0	0.0								6.5	5.1
SSW	0.0	2.0	0.0	0.0								6.1	4.9
SW	0.0	1.0	0.0	0.0								6.1	4.2
WSW	1.0	1.0	0.0									3.0	4.8
W	0.0	1.0	1.0									6.0	4.1
WNW	1.0	1.0	1.0									3.0	5.0
NW	0.0	1.0	0.0	0.0								3.0	5.8
NNW	0.0	1.0	1.0	0.0								3.0	6.7
VARIABLE													
CALM													
	20.0	24.0	12.0	4.0	0.0							10.0	3.5

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHLEYVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

CONDITION

HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ENE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
E	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
W	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VARBL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CALM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME ASHEVILLE, NC YEAR 1957 DAY 17  
 MONTH 07  
 HOURS (LST) 17

CLASS ALL

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									5.0	5.0
NNE	1.0	1.0	1.0									5.0	5.0
NE	1.0	1.0	1.0									4.0	5.0
ENE	1.0	1.0	1.0	1.0								4.0	5.0
E	1.0	1.0	1.0	1.0			1.0					4.0	5.0
ESE	1.0	1.0	1.0	1.0								4.0	5.0
SE	1.0	1.0	1.0	1.0								4.0	5.0
SSE	1.0	1.0	1.0	1.0								4.0	5.0
S	1.0	1.0	1.0	1.0								4.0	5.0
SSW	1.0	1.0	1.0	1.0								4.0	5.0
SW	1.0	1.0	1.0	1.0								4.0	5.0
WSW	1.0	1.0	1.0	1.0								4.0	5.0
W	1.0	1.0	1.0	1.0								4.0	5.0
WNW	1.0	1.0	1.0	1.0								4.0	5.0
NW	1.0	1.0	1.0	1.0								4.0	5.0
NNW	1.0	1.0	1.0	1.0								4.0	5.0
VARBL													
CALM												17.0	
	1.0	3.0	1.0	1.0			1.0					10.0	4.7

TOTAL NUMBER OF OBSERVATIONS

300

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: ASHEVILLE, NC STATION: 1225 YEAR: 19 MONTH: 10 DAY: 10  
HOURS (LST): 10

ALL OBSERVATIONS

CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.1	7.1
NNE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	7.1
NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.2
ENE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.7
E	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.7
ESE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.7
SE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.7
SSE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.6
S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.1
SSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.3
SW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.1
WSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.7
W	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.1
WNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.6
NW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.7
NNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.1
VARBL													
CALM												6.0	
	1.1	22.7	34.5	6.0	6.6	1.7	1.3					100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

110

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: ASHEVILLE YEARS: 1954 MONTH: 12 HOURS (L.S.T.): 17

CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	2.0	2.0	1.0								1.4	7.7
NNE	0	1.0	0.0	0.0								2.0	5.8
NE	0	1.0	0.0									1.0	5.6
ENE	0	1.0	1.0	0.0								2.0	6.3
E	1.0	2.0	2.0	0.0								3.0	6.3
ESE	0	1.0	1.0									2.0	6.1
SE	0	1.0	2.0	0.0								4.5	4.2
SSE	0	1.0	1.0	0.0								3.0	6.8
S	0	2.0	2.0	1.0								5.0	7.7
SSW	1.0	1.0	2.0	0.0								5.0	7.2
SW	0	1.0	3.0	0.0								5.0	7.1
WSW	0	2.0	3.0									6.0	6.6
W	1.0	3.0	4.0	0.0								11.0	6.6
WNW	0	2.0	3.0	1.0	0.0							8.0	7.6
NW	0	0	2.0	1.0	0.0							6.0	12.1
NNW	0	1.0	2.0	1.0	0.0							7.0	9.0
VARBL													
CALM												6.0	
	17.0	21.0	40.0	10.0	1.6							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: LL CENTRE YEARS: 19 MONTH: 16  
 CLASS: 16 HOURS (L.S.T.): 16

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	.3							5.0	7.0
NNE	.3	1.0	1.0	.6								3.0	7.5
NE	.3	.3	1.0	.3								2.0	7.3
ENE	.3	.3	2.0	.3								3.0	7.3
E	1.0	1.0	1.0	1.0								5.0	6.6
ESE	1.0	1.0	3.0	.6								5.0	7.4
SE	.3	.6	.6									1.0	5.4
SSE	.3	.6	1.0	1.0	.3							4.5	5.7
S	1.0	2.0	1.0	1.0								6.1	6.5
SSW	.3	3.0	2.0	.6								7.1	6.8
SW	.3	2.0	3.0	.3								6.0	7.2
WSW	1.0	3.0	4.0	1.0								10.7	7.6
W	1.0	1.0	2.0	.3								10.0	5.8
WNW	.3	3.0	2.0	1.0								7.4	7.8
NW	.3	1.0	3.0	3.0								9.4	7.6
NNW	1.0	1.0	1.0	.3	.6							4.5	7.5
VARBL													
CALM												4.0	
	2.7	31.0	39.7	14.5	1.3							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

310



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: ASHEVILLE, NC YEARS: 19 MONTH: 10 DAY: 10

CLASS: ALL WEATHER HOURS (L S T): 10

CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								2.0	7.6
NNE	1.0	2.0	1.0									2.0	4.6
NE		1.0	1.0									1.0	7.8
ENE	1.0	1.0		1.0								1.0	7.0
E	1.0	1.0	1.0	1.0								3.0	7.3
ESE	1.0	2.0	1.0	1.0								6.0	5.0
SE	1.0	1.0	2.0	1.0								3.0	6.5
SSE	1.0	2.0	2.0									6.0	5.5
S	1.0	2.0	1.0	1.0								6.0	7.2
SSW	1.0	2.0	2.0									7.0	6.0
SW	1.0	2.0	1.0	1.0								7.0	4.0
WSW	1.0	2.0	2.0	1.0								7.0	5.0
W	1.0	2.0	1.0	1.0								7.0	4.0
WNW	1.0	1.0	1.0									4.0	5.1
NW	1.0	1.0	2.0									4.0	5.7
NNW	1.0	1.0	2.0	1.0								7.0	6.0
VARBL													
CALM												10.0	
	21.0	31.0	27.0	4.0	1.0							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME ASHEVILLE YEARS 1950 MONTH 02 DAY 02

STATION 1225 HOURS (LST) 00

CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								6.0	7.0
NNE	1.0	1.0	1.0									4.0	5.8
NE	1.0	1.0	1.0	1.0								1.0	1.7
ENE	1.0	1.0	1.0									2.0	3.0
E	1.0	2.0	1.0		1.0							1.0	1.0
ESE	1.0	2.0	1.0	1.0								1.0	1.0
SE	1.0	1.0	1.0									1.0	1.0
SSE	1.0	1.0	1.0		1.0							1.0	1.0
S	1.0	2.0	2.0	1.0								7.0	5.0
SSW	1.0	3.0	1.0	1.0								1.0	1.0
SW	1.0	3.0	1.0									1.0	4.0
WSW	1.0	1.0	1.0									7.0	4.0
W	1.0	2.0	1.0	1.0								6.0	5.0
WNW	1.0	1.0	1.0									2.0	4.0
NW	1.0	1.0	1.0	1.0								1.0	7.0
NNW	1.0	1.0		1.0								2.0	7.0
VARBL													
CALM												16.0	
	21.0	21.0	21.0	4.0	1.0	1.0						100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

NAVAL RESEARCH SERVICE  
DEPARTMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: ALLIANCE MONTH: ALL  
 YEARS: 1970 HOURS (LST): 24

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.1	2.1	.1	.1							2.1	7.0
NNE	1.1	1.1	1.1	.1	.1							4.1	5.6
NE	.1	1.1	.1	.1	.1							3.1	5.9
ENE	.1	1.1	.1	.1	.1							3.1	6.2
E	1.1	2.1	1.1	.1	.1		.1					6.1	5.1
ESE	1.1	1.1	1.1	.1	.1							4.1	5.0
SE	.1	1.1	1.1	.1	.1							3.1	6.1
SSE	1.1	1.1	1.1	.1	.1							4.1	6.1
S	1.1	2.1	1.1	.1	.1							5.1	6.3
SSW	1.1	2.1	1.1	.1	.1		.1					4.1	6.2
SW	1.1	2.1	1.1	.1	.1							5.1	5.7
WSW	1.1	2.1	2.1	.1	.1							6.1	5.9
W	2.1	2.1	2.1	.1	.1							6.1	5.4
WNW	1.1	2.1	1.1	.1	.1		.1					4.1	5.2
NW	.1	1.1	2.1	1.1	.1							5.1	5.2
NNW	.1	1.1	1.1	.1	.1		.1					5.1	7.2
VARBL													
CALM												10.1	
	1.1	11.1	25.1	7.0	.1	.1	.1					11.1	5.2

TOTAL NUMBER OF OBSERVATIONS

7470

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									3.0	3.0
NNE	1.0	1.0	1.0									3.0	4.0
NE		1.0	1.0									1.0	3.0
ENE		1.0	1.0									3.0	3.7
E		1.0	1.0									3.0	3.0
ESE	1.0	1.0	1.0									3.0	4.1
SE	1.0	1.0	1.0									3.0	4.6
SSE	1.0	1.0	1.0									4.0	4.1
S	1.0	1.0	1.0	1.0								1.0	4.1
SSW	1.0	1.0	1.0	1.0								7.0	4.5
SW	1.0	1.0	1.0	1.0								3.0	4.7
WSW	1.0	1.0	1.0	1.0								3.0	4.0
W	1.0	1.0	1.0	1.0								3.0	4.3
WNW	1.0	1.0	1.0	1.0								3.0	4.2
NW	1.0	1.0	1.0	1.0								3.0	5.7
NNW	1.0	1.0	1.0	1.0								4.0	5.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	0	0								3.0	3.0
NNE	1.0	1.0										3.0	3.0
NE	1.0	1.0	0									3.0	4.0
ENE	0	0	1.0									2.0	3.0
E	0	1.0	0									4.0	3.0
ESE	0	1.0	0									1.0	4.0
SE	1.0	1.0										2.0	4.0
SSE	1.0	3.0										3.0	4.0
S	0	1.0	1.0	0								4.0	4.0
SSW	1.0	3.0	1.0	0								6.0	4.0
SW	0	2.0										1.0	4.0
WSW	1.0	3.0	0	0								5.0	4.0
W	0	0	0									7.0	4.0
WNW	0	3.0	1.0									7.0	4.0
NW	1.0	0	0									4.0	4.0
NNW	1.0	1.0	0									3.0	4.0
VARBL													
CALM												2.0	4.0
	20.0	24.0	7.0	1.0								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

ALL DATA

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	1.7	1.7								1.7	1.7
NNE	1.7	1.7	1.7									1.7	1.7
NE	1.7	1.7	1.7									4.7	1.7
ENE	1.7	1.7	1.7									1.7	4.1
E	1.7	1.7	1.7									1.7	1.7
ESE	1.7	1.7	1.7									1.7	4.1
SE	1.7	1.7	1.7									1.7	4.1
SSE	1.7	1.7	1.7									1.7	1.7
S	1.7	1.7	1.7									1.7	1.7
SSW	1.7	1.7	1.7									1.7	1.7
SW	1.7	1.7	1.7									1.7	1.7
WSW	1.7	1.7	1.7									1.7	1.7
W	1.7	1.7	1.7									1.7	1.7
WNW	1.7	1.7	1.7									1.7	1.7
NW	1.7	1.7	1.7									1.7	1.7
NNW	1.7	1.7	1.7									1.7	1.7
VARBL													
CALM												17.0	
	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: ASHEVILLE YEARS: 1950-1951 MONTH: 11  
 CLASS: ALL DATA  
 CONDITION:

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	2.0	2.0	1.0								3.0	3.0
NNE	1.0	1.0	1.0									3.0	3.1
NE	0.0	0.0	0.0	0.0								0.0	0.0
ENE	0.0	1.0	2.0									0.0	0.7
E	1.0	3.0	1.0									0.0	0.7
ESE	1.0	2.0	0.0									0.0	0.0
SE	0.0	1.0	1.0									4.0	4.7
SSE	0.0	0.0	0.0									0.0	0.0
S	0.0	0.0	0.0									4.0	4.7
SSW	1.0	2.0	2.0	0.0								0.0	0.0
SW	0.0	1.0	2.0	0.0								0.0	0.0
WSW	0.0	0.0	0.0									0.0	0.0
W	0.0	0.0	2.0	1.0								4.0	4.7
WNW	0.0	4.0	4.0	0.0								10.0	10.7
NW	0.0	7.0	2.0	0.0								10.0	10.7
NNW	0.0	0.0	0.0	1.0								7.0	7.6
VARBL												7.0	7.6
CALM												10.0	
	10.0	40.0	20.0	0.0								10.0	5.0

TOTAL NUMBER OF OBSERVATIONS

100

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEAR

MONTH

CLASS

HOURE (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.0	0.0	0.0								4.7	1.0
NNE		1.0	0.0									1.7	1.0
NE		0.0	0.0									1.0	0.0
ENE	1.0	1.0	0.0									0.0	0.0
E	1.0	1.0	0.0									4.7	0.0
ESE	0.0	0.0	0.0									2.0	7.1
SE		1.0	1.0									2.0	1.0
SSE	0.0	0.0	1.0									3.0	5.6
S	1.0	0.0	0.0	1.0								7.7	0.0
SSW		1.0	0.0	0.0								0.0	7.7
SW	0.0	0.0	0.0	0.0								1.7	0.0
WSW	1.0	0.0	0.0	0.0								10.0	1.0
W	1.0	0.0	0.0	1.0								10.0	7.1
WNW	1.0	0.0	0.0	0.0								11.0	7.0
NW	1.0	0.0	1.0	0.0	0.0							7.7	0.0
NNW	0.0	0.0	1.0	1.0	0.0							7.0	7.0
VARBL													
CALM												7.0	
	11.0	22.0	30.0	0.0	0.0							10.0	0.0

TOTAL NUMBER OF OBSERVATIONS

100

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME ASHEVILLE, NC YEARS 1957 MONTH JUL

CLASS ALL HOURS (L S T) 17

CONDITION

SPEED (KNTS) Dir.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VABBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1.0	1.0	3.0	1.0	0	0	0	0	0	0	0	1.0	0.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME ASHEVILLE MONTH J  
CLASS 11-15 YEARS 1955  
HOURS (LST) 1

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	1.7	1.7									1.7	4.0
NNE		1.7		1.7								1.7	4.0
NE	1.7	1.7										1.7	4.4
ENE		1.7		1.7								1.7	7.7
E	1.7	1.7	1.7	1.7								1.7	5.6
ESE	1.7	1.7	1.7	1.7								1.7	5.6
SE	1.7	1.7	1.7	1.7								1.7	5.6
SSE	1.7	1.7	1.7	1.7								1.7	5.6
S	1.7	1.7	1.7	1.7	1.7	1.7						7.7	6.0
SSW	1.7	1.7	1.7	1.7	1.7	1.7						7.7	5.3
SW	1.7	1.7	1.7	1.7	1.7	1.7						1.7	4.6
WSW	1.7	1.7	1.7	1.7	1.7	1.7						1.7	4.6
W	1.7	1.7	1.7	1.7	1.7	1.7						1.7	4.6
WNW	1.7	1.7	1.7	1.7	1.7	1.7						1.7	4.6
NW	1.7	1.7	1.7	1.7	1.7	1.7						1.7	4.6
NNW	1.7	1.7	1.7	1.7	1.7	1.7						1.7	4.6
VARBL													
CALM												13.7	
	1.7	1.7	1.7	1.7	1.7	1.7						13.7	4.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: ASHEVILLE, NC YEARS: 1952 MONTH: 12

STATION: 1225 CLASS: 11 HOURS (LST): 22

CONDITION:

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	1.7	1.7									4.6	4.7
NNE	1.7	1.7										2.7	3.7
NE	1.7	1.7	1.7									2.6	2.6
ENE	1.7	1.7	1.7									2.7	3.6
E	1.7	1.7	1.7									3.7	3.4
ESE	1.7	1.7	1.7									1.7	3.7
SE	1.7	1.7	1.7									4.6	4.1
SSE	1.7	3.7	1.7									7.6	5.2
S	1.7	4.7	1.7									12.3	4.7
SSW	1.7	3.7	1.7	1.7								10.6	4.6
SW	1.7	3.7	1.7	1.7								6.6	5.1
WSW	1.7	4.3	1.7	1.7								6.6	4.4
W	1.7	1.7	1.7									5.7	3.7
WNW	1.7	1.7	1.7									2.7	3.7
NW	1.7	1.7	1.7									2.7	3.4
NNW	1.7	1.7	1.7	1.7								4.6	6.2
VARBL													
CALM												2.7	
	24.7	17.7	11.7	2.7								10.6	3.7

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

ALL

HOURS (LST)

ALL DAY

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.1	1.0	1.0	0.1								4.0	0.0
NNE	0.1	1.0	0.1	0.1								1.0	4.7
NE	0.1	1.0	0.1	0.1								0.1	0.0
ENE	0.1	1.0	1.0	0.1								0.1	0.7
E	1.0	1.0	1.0									4.7	0.1
ESE	0.1	1.0	0.1	0.1								0.1	0.6
SE	0.1	1.0	0.1	0.1								0.1	0.4
SSE	1.0	0.3	1.0	0.1								4.0	0.0
S	1.0	0.1	0.1	0.1								7.0	0.7
SSW	1.0	0.1	1.0	0.4	0.1							0.1	0.7
SW	1.0	0.1	1.0	0.3								0.1	0.6
WSW	1.0	0.1	1.0	0.3								7.0	0.4
W	0.1	4.0	0.1	0.0								0.7	0.0
WNW	0.1	0.1	0.1	0.0								0.1	0.0
NW	1.0	0.3	1.0	0.0	0.0							0.7	0.0
NNW	0.1	0.3	1.0	0.7	0.1							0.7	0.0
VARBL													
CALM												17.0	
	1.0	0.0	0.0	4.0	0.0	0.0						10.0	4.7

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_

STATION \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (L S Y) \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	0									3.0	3.0
NNE	1.0	0.7	0.7									1.0	3.3
NE	1.0	0.3										1.0	3.0
ENE	0		0									1.0	4.0
E	0	0.3	0									1.0	4.0
ESE		0										0	0.0
SE		0										0	0.0
SSE	1.0	1.0										2.0	3.0
S	0	0.7										1.0	3.0
SSW	0	0.7	0.7	0.7								3.0	4.3
SW	0	0.3	1.0	0.7								1.0	4.0
WSW	0	1.0	0									4.0	3.0
W	1.0	4.0	1.0									0	0.0
WNW	0	0.7	0									3.0	4.6
NW	1.0	1.0	0									3.0	3.0
NNW	0	1.0	1.0									3.0	4.4
VARBL												0.0	
CALM												100.0	2.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

JUL  
MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	1.0	0	0	0	0	0	0	0	0	0	1.0	4.0
NE	0	0	0	0	0	0	0	0	0	0	0	1.0	2.0
ENE	0	0	0	0	0	0	0	0	0	0	0	1.0	3.7
E	0	0	0	0	0	0	0	0	0	0	0	1.0	4.0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	1.0	2.0
SSE	1.0	0	0	0	0	0	0	0	0	0	0	1.0	4.2
S	1.0	1.0	0	0	0	0	0	0	0	0	0	0	3.2
SSW	1.0	1.0	0	0	0	0	0	0	0	0	0	4.0	4.3
SW	1.0	1.0	0	0	0	0	0	0	0	0	0	3.0	4.0
WSW	0	0	0	0	0	0	0	0	0	0	0	7.7	4.0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	4.0	4.1
NW	0	0	1.0	0	0	0	0	0	0	0	0	4.1	4.1
NNW	1.0	0	0	0	0	0	0	0	0	0	0	4.0	3.9
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

100

NAVAL WEATHER BUREAU  
OF THE ARMY  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME ASHVILLE, NC YEARS 1957 MONTH JUL  
CLASS 11-16 HOURS (LST) 00-24

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	•	4.0	•	•	•	•	•	•	•	•	•	7.7	4.3
NNE	•	1.0	•	•	•	•	•	•	•	•	•	3.0	5.5
NE	•	1.0	•	•	•	•	•	•	•	•	•	2.3	4.1
ENE	•	1.0	•	•	•	•	•	•	•	•	•	2.0	3.2
E	•	2.0	•	•	•	•	•	•	•	•	•	4.1	4.1
ESE	•	•	•	•	•	•	•	•	•	•	•	3.0	3.0
SE	•	•	•	•	•	•	•	•	•	•	•	1.0	3.3
SSE	•	•	•	•	•	•	•	•	•	•	•	1.0	4.2
S	•	1.0	•	•	•	•	•	•	•	•	•	1.0	3.7
SSW	1.0	2.0	•	•	•	•	•	•	•	•	•	3.0	3.9
SW	•	2.0	•	•	•	•	•	•	•	•	•	4.0	3.4
WSW	•	2.0	1.0	•	•	•	•	•	•	•	•	7.1	4.1
W	•	4.0	1.0	•	•	•	•	•	•	•	•	11.3	4.0
WNW	•	4.0	•	•	•	•	•	•	•	•	•	1.1	4.1
NW	1.0	1.0	•	•	•	•	•	•	•	•	•	3.0	5.1
NNW	•	4.0	1.0	•	•	•	•	•	•	•	•	1.7	6.4
VARBL													
CALM													
	54.1	47.0	7.1	1.0								10.0	3.3

TOTAL NUMBER OF OBSERVATIONS

11

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (L S T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								1.0	1.0
NNE	1.0	1.0	1.0									1.0	1.0
NE	1.0	1.0	1.0									1.0	1.0
ENE	1.0	1.0	1.0									1.0	1.0
E	1.0	1.0	1.0									1.0	1.0
ESE	1.0	1.0	1.0									1.0	1.0
SE	1.0	1.0	1.0									1.0	1.0
SSE	1.0	1.0	1.0									1.0	1.0
S	1.0	1.0	1.0									1.0	1.0
SSW	1.0	1.0	1.0									1.0	1.0
SW	1.0	1.0	1.0									1.0	1.0
WSW	1.0	1.0	1.0									1.0	1.0
W	1.0	1.0	1.0									1.0	1.0
WNW	1.0	1.0	1.0									1.0	1.0
NW	1.0	1.0	1.0									1.0	1.0
NNW	1.0	1.0	1.0									1.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	100.0	1.0

TOTAL NUMBER OF OBSERVATIONS



# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ STATION \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ YEARS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NNE	1.0	1.0	1.0	1.0								1.0	1.0
NE	1.0	1.0	1.0									1.0	1.0
ENE		1.0										1.0	1.0
E		1.0	1.0									1.0	1.0
ESE		1.0	1.0	1.0								1.0	1.0
SE		1.0	1.0	1.0	1.0							1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
S	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0					1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0	1.0
W	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (L S T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•	•							7.1	•.1
NNE	•	•	•									•	4.5
NE	•	•	•									•	4.1
ENE	•	•	•	•								•	•
E	•	•	•	•								•	•
ESE		•	•	•								•	•
SE			•	•								•	•
SSE	•		•	•								•	•
S	•	•	•	•								•	•
SSW	•	•	•	•								•	•
SW	•	•	•	•								•	•
WSW	•	•	•	•								•	•
W	•	•	•	•								•	•
WNW	•	•	•	•								•	•
NW	•	•	•	•								•	•
NNW	•	•	•	•								•	•
VARBL													
CALM													
	•	•	•	•	•	•	•	•	•	•	•	•	•

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									1.0	4.0
NNE	1.0											1.0	3.0
NE	1.0	1.0										3.0	4.0
ENE	1.0											1.0	3.0
E	1.0	1.0										1.0	3.0
ESE	1.0	1.0										1.0	3.0
SE	1.0	1.0										1.0	3.0
SSE	1.0	1.0										1.0	3.0
S	1.0	1.0	1.0									1.0	3.0
SSW	1.0	1.0	1.0									1.0	3.0
SW	1.0	1.0	1.0									1.0	3.0
WSW	1.0	1.0	1.0									1.0	3.0
W	1.0	1.0	1.0									1.0	3.0
WNW	1.0	1.0	1.0									1.0	3.0
NW	1.0	1.0	1.0									1.0	3.0
NNW	1.0	1.0	1.0									1.0	3.0
VARBL													
CALM													
	10.0	41.0	17.0	1.0	1.0							10.0	3.0

TOTAL NUMBER OF OBSERVATIONS

1

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									3.0	4.0
NNE	1.0	1.0										3.0	4.0
NE		1.0										3.0	4.0
ENE												3.0	4.0
E	1.0	1.0	1.0									3.0	4.0
ESE		1.0	1.0									3.0	4.0
SE	1.0	1.0	1.0									3.0	4.0
SSE	1.0	1.0	1.0									3.0	4.0
S	1.0	1.0	1.0									3.0	4.0
SSW	1.0	1.0	1.0									3.0	4.0
SW	1.0	1.0	1.0									3.0	4.0
WSW	1.0	1.0	1.0									3.0	4.0
W	1.0	1.0	1.0									3.0	4.0
WNW	1.0	1.0	1.0									3.0	4.0
NW	1.0	1.0	1.0									3.0	4.0
NNW	1.0	1.0	1.0									3.0	4.0
VARBL													
CALM												77.0	
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: ASHEVILLE YEARS: 1961 MONTH: JUL  
 CLASS: ALL HOURS: 1157

CONDITION: ALL

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NNE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
ENE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
E	1.0	1.0	1.0	1.0	1.0							1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
S	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
W	1.0	1.0	1.0	1.0	1.0							1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
VARBL													
CALM												1.0	1.0
	10.0	10.0	10.0	10.0	10.0							100.0	10.0

TOTAL NUMBER OF OBSERVATIONS

100

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME LL 5470 MONTH 1  
CLASS LL 5470 YEARS 1954  
HOURS (L S Y) 1

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								2.0	1.0
NNE	1.0	1.0	1.0									1.0	1.0
NE	1.0	1.0	1.0									1.0	1.0
ENE	1.0	1.0	1.0									1.0	1.0
E	1.0	1.0	1.0									1.0	1.0
ESE	1.0	1.0	1.0									1.0	1.0
SE	1.0	1.0	1.0									1.0	1.0
SSE	1.0	1.0	1.0									1.0	1.0
S	1.0	1.0	1.0									1.0	1.0
SSW	1.0	1.0	1.0									1.0	1.0
SW	1.0	1.0	1.0									1.0	1.0
WSW	1.0	1.0	1.0									1.0	1.0
W	1.0	1.0	1.0									1.0	1.0
WNW	1.0	1.0	1.0									1.0	1.0
NW	1.0	1.0	1.0									1.0	1.0
NNW	1.0	1.0	1.0									1.0	1.0
VARBL													
CALM													
	10.0	10.0	10.0	1.0								10.0	10.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
	CLASS	HOURS (LST)	
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	0.0									0.0	0.0
NNE	1.0	1.0										0.0	0.0
NE	0.0	1.0										0.0	0.0
ENE	1.0	1.0	1.0									0.0	0.0
E	0.0	0.0	0.0									0.0	0.0
ESE	0.0	0.0	0.0	0.0								0.0	0.0
SE	0.0	1.0	0.0									0.0	0.0
SSE	0.0	1.0	0.0									0.0	0.0
S	0.0	1.0	0.0									0.0	0.0
SSW	1.0	1.0	0.0									0.0	0.0
SW	0.0	0.0	0.0									0.0	0.0
WSW	0.0	1.0	0.0									0.0	0.0
W	0.0	0.0	0.0									0.0	0.0
WNW	0.0	0.0	0.0	0.0								0.0	0.0
NW	0.0	0.0	0.0									0.0	0.0
NNW	0.0	1.0	0.0									0.0	0.0
VARBL													
CALM													
	0.0	0.0	0.0	0.0								0.0	0.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

ALL

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									3.0	1.0
NNE	1.0	2.0	1.0									4.0	4.0
NE	1.0	1.0	1.0									3.0	1.7
ENE	1.0	1.0	1.0									3.0	1.7
E	1.0	1.0	1.0									3.0	4.0
ESE	1.0	1.0	1.0									3.0	4.0
SE	1.0	1.0	1.0									3.0	4.0
SSE	1.0	1.0	1.0									3.0	4.0
S	1.0	1.0	1.0									3.0	4.0
SSW	1.0	1.0	1.0									3.0	4.0
SW	1.0	1.0	1.0									3.0	4.0
WSW	1.0	1.0	1.0									3.0	4.0
W	1.0	1.0	1.0									3.0	4.0
WNW	1.0	1.0	1.0									3.0	4.0
NW	1.0	1.0	1.0									3.0	4.0
NNW	1.0	1.0	1.0									3.0	4.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS



2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME ASHEVILLE, NC YEARS 1970 MONTH 10

STATION 1220 CLASS LL HOURS (L.S.T.) 10

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	0.0	1.0									7.0	1.3
NNE	1.0	3.0	0.0	0.0								5.0	1.1
NE	0.0	1.0	1.0	0.0								2.0	1.2
ENE	0.0	2.0	1.0									3.0	1.1
E	0.0	7.0	0.0	0.0								7.0	1.4
ESE	0.0	1.0	0.0									1.0	1.0
SE	0.0	1.0	0.0									2.0	1.0
SSE	0.0	1.0	0.0									2.0	1.0
S	0.0	1.0	1.0									2.0	1.0
SSW	1.0	1.0	1.0	0.0								4.0	1.0
SW	1.0	7.0	0.0									9.0	1.0
WSW	1.0	2.0	0.0									3.0	1.0
W	1.0	4.0	1.0	0.0								6.0	1.0
WNW	1.0	3.0	2.0	0.0								6.0	1.0
NW	1.0	2.0	1.0	0.0								6.0	1.0
NNW	1.0	7.0	1.0	0.0								9.0	1.0
VARBL													
CALM													
	21.0	44.0	21.0	0.0								86.0	1.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS LIST

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	0.0	0.0								0.0	0.0
NNE	0.0	0.0	1.0									1.0	0.0
NE	1.0	1.0	1.0									3.0	0.6
ENE	0.0	1.0	0.0									1.0	0.6
E	0.0	0.0	1.0	0.0								2.0	0.4
ESE	1.0	1.0	1.0									3.0	0.4
SE	0.0	1.0	0.0									1.0	0.4
SSE	1.0	0.0	0.0									1.0	0.4
S	1.0	1.0	1.0									3.0	0.4
SSW	1.0	1.0	1.0	0.0								3.0	0.4
SW	1.0	0.0	1.0									2.0	0.4
WSW	1.0	4.0	0.0	0.0								6.0	0.4
W	1.0	4.0	0.0	1.0	0.0							6.0	0.4
WNW	0.0	0.0	4.0	0.0								4.0	0.4
NW	0.0	0.0	1.0	1.0	0.0							3.0	0.4
NNW	0.0	0.0	0.0									0.0	0.4
VARBL													
CALM													
	10.0	42.4	10.1	0.0	0.0							62.5	0.4

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS 11 5 7  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.0	2.0									0.0	0.0
NNE	0	0	1.0	0.0								0.0	0.0
NE	0											0.0	0.0
ENE	0	1.0	1.0	0.0								0.0	0.0
E	0	0	1.0	0.0								0.0	0.0
ESE	0	0.0	1.0									0.0	0.0
SE		1.0		0.0								0.0	0.0
SSE	0	1.0	0.0	0.0								0.0	0.0
S	0	0	1.0	0.0								0.0	0.0
SSW	1.0	1.0	1.0	0.0								0.0	0.0
SW	0	0.0	2.0	0.0								0.0	0.0
WSW	1.0	0.0	2.0	0.0								0.0	0.0
W	0.0	0.0	2.0	0.0								0.0	0.0
WNW	0.0	0.0	2.0	0.0								0.0	0.0
NW	0.0	0.0	2.0	0.0	0.0							0.0	0.0
NNW	0.0	0.0	1.0	0.0								0.0	0.0
VARBL													
CALM													
	10.0	44.0	24.0	0.0	0.0							10.0	0.0

TOTAL NUMBER OF OBSERVATIONS

2

NAVAL WEATHER SERVICE  
ATTACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURLY LIST

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	1.0	•	•								•	•
NNE	•		•	•								1.0	•
NE	•	•	1.0	•								•	•
ENE	•	1.0	1.0									•	•
E	•	•	•	•								•	•
ESE	•	1.0										1.0	•
SE	•	•	•	•								•	•
SSE	•	1.0	•	•								•	•
S	1.0	1.0	•	•								•	•
SSW	1.0	•	1.0									•	•
SW	•	•	•	•								•	•
WSW	•	•	•	•								•	•
W	•	•	•	•								•	•
WNNW	•	•	•	•								•	•
NW	1.0	1.0										•	•
NNW	•	1.0	•	•								•	•
VARBL													
CALM													
	10.0	20.0	10.0	1.0								10.0	•

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0		1.0							1.0	1.0
NNE	1.0	1.0	1.0									1.0	1.0
NE	1.0											1.0	1.0
ENE	1.0	1.0	1.0									1.0	1.0
E	1.0	1.0	1.0									1.0	1.0
ESE	1.0	1.0	1.0									1.0	1.0
SE	1.0	1.0	1.0									1.0	1.0
SSE	1.0	1.0	1.0									1.0	1.0
S	1.0	1.0	1.0									1.0	1.0
SSW	1.0	1.0	1.0									1.0	1.0
SW	1.0	1.0	1.0									1.0	1.0
WSW	1.0	1.0	1.0									1.0	1.0
W	1.0	1.0	1.0									1.0	1.0
WNW	1.0	1.0	1.0									1.0	1.0
NW	1.0	1.0	1.0									1.0	1.0
NNW	1.0	1.0	1.0									1.0	1.0
VARBL													
CALM													
	11.0	21.0	7.0	1.0	1.0							1.0	2.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (LST) \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•	•							•	•
NNE	•	•	•	•	•							•	•
NE	•	•	•	•	•							•	•
ENE	•	•	•	•	•							•	•
E	•	•	•	•	•							•	•
ESE	•	•	•	•	•							•	•
SE	•	•	•	•	•							•	•
SSE	•	•	•	•	•							•	•
S	•	•	•	•	•							•	•
SSW	•	•	•	•	•							•	•
SW	•	•	•	•	•							•	•
WSW	•	•	•	•	•							•	•
W	•	•	•	•	•							•	•
WNW	•	•	•	•	•							•	•
NW	•	•	•	•	•							•	•
NNW	•	•	•	•	•							•	•
VARBL													
CALM													
	•	•	•	•	•	•	•	•	•	•	•	100	1.7

TOTAL NUMBER OF OBSERVATIONS 1007

NAVAL AIR FORCE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									4.0	1.0
NNE	1.0	1.0	1.0									2.0	1.0
NE	1.0	1.0	1.0									1.0	4.0
ENE	1.0	1.0	1.0									1.0	4.7
E	1.0	1.0	1.0	1.0								1.0	3.1
ESE	1.0	1.0	1.0									1.0	3.2
SE	1.0	1.0	1.0									1.0	3.3
SSE	1.0	1.0	1.0									1.0	3.4
S	1.0	1.0	1.0	1.0								1.0	4.0
SSW	1.0	1.0	1.0	1.0								4.0	3.6
SW	1.0	1.0	1.0	1.0								1.0	3.0
WSW	1.0	1.0	1.0	1.0								1.0	3.1
W	1.0	1.0	1.0	1.0								1.0	3.2
WNW	1.0	1.0	1.0	1.0								1.0	4.0
NW	1.0	1.0	1.0	1.0								1.0	4.1
NNW	1.0	1.0	1.0	1.0								1.0	3.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
OFFICE OF THE DIRECTOR  
NAVY WEATHER CENTER

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
STATION \_\_\_\_\_ YEARS \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS 11 5 T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	.	.	.	.	.	.	.	.	.	.	.
NNE	.	.	.	.	.	.	.	.	.	.	.	.	.
NE	.	.	.	.	.	.	.	.	.	.	.	.	.
ENE	.	.	.	.	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.	.	.	.	.
ESE	1.	.	.	.	.	.	.	.	.	.	.	.	.
SE	.	.	.	.	.	.	.	.	.	.	.	.	.
SSE	.	.	.	.	.	.	.	.	.	.	.	.	.
S	.	.	.	.	.	.	.	.	.	.	.	.	.
SSW	1.	1.	1.	.	.	.	.	.	.	.	.	.	.
SW	1.	1.	1.	.	.	.	.	.	.	.	.	.	.
WSW	1.	1.	1.	.	.	.	.	.	.	.	.	.	.
W	.	.	.	.	.	.	.	.	.	.	.	.	.
WNW	.	.	.	.	.	.	.	.	.	.	.	.	.
NW	.	.	.	.	.	.	.	.	.	.	.	.	.
NNW	.	.	.	.	.	.	.	.	.	.	.	.	.
VARBL	.	.	.	.	.	.	.	.	.	.	.	.	.
CALM	.	.	.	.	.	.	.	.	.	.	.	.	.
	11.	11.	11.	11.	11.	11.	11.	11.	11.	11.	11.	11.	11.
	11.	11.	11.	11.	11.	11.	11.	11.	11.	11.	11.	11.	11.

TOTAL NUMBER OF OBSERVATIONS



2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	0.0	0.0								0.0	0.0
NNE	0.0	0.0	0.0									0.0	0.0
NE	0.0	0.0	0.0									0.0	0.0
ENE	0.0	0.0	0.0									0.0	0.0
E	0.0	0.0	0.0									0.0	0.0
ESE	0.0	0.0	0.0									0.0	0.0
SE	0.0	0.0	0.0									0.0	0.0
SSE	0.0	0.0	0.0									0.0	0.0
S	0.0	0.0	0.0									0.0	0.0
SSW	0.0	0.0	0.0									0.0	0.0
SW	0.0	0.0	0.0									0.0	0.0
WSW	0.0	0.0	0.0									0.0	0.0
W	0.0	0.0	0.0									0.0	0.0
WNW	0.0	0.0	0.0									0.0	0.0
NW	0.0	0.0	0.0									0.0	0.0
NNW	0.0	0.0	0.0									0.0	0.0
VARBL													
CALM													
	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	4.3
NNE	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	6.1
NE	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	6.1
ENE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.5
E	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	1.6
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.4
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.4
SSE	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	3.2
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.7
SSW	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.0
SW	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	7.7
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	1.1
W	0.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	1.1
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1
NW	1.0	4.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	3.3
NNW	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	7.3
VARBL													
CALM												7.0	
	14.0	4.0	3.0	7.0	1.0							10.0	

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME YEARS MONTH

HOURS U.S.T.

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.0	1.0	1.0								1.0	3.0
NNE	0	2.0	1.0									1.0	3.0
NE	0	1.0										1.0	4.0
ENE	1.0	1.0	1.0									4.0	3.0
E	1.0	2.0	1.0	1.0								4.0	3.0
ESE	0	1.0	1.0	1.0								4.0	3.0
SE	0	1.0	1.0									4.0	3.0
SSE	1.0	2.0	1.0	1.0								4.0	3.0
S	0	2.0	1.0	1.0								4.0	3.0
SSW	0	2.0	1.0	1.0								4.0	3.0
SW	1.0	2.0	2.0	1.0								7.0	3.0
WSW	1.0	1.0	2.0	1.0								5.0	3.0
W	2.0	2.0	1.0	1.0								13.0	3.0
WNW	1.0	2.0	1.0	1.0								7.0	3.0
NW	0	1.0	2.0	1.0	1.0							13.0	3.0
NNW	1.0	1.0	1.0	1.0								5.0	3.0
VARBL													
CALM												7.0	
	17.0	20.0	30.0	10.0	1.0							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS U.S.T

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.7	1.7									1.7	4.1
NNE	1.7	1.7	1.7									1.7	4.1
NE	1.7	1.7	1.7									1.7	4.1
ENE	1.7	1.7	1.7									1.7	4.1
E	1.7	1.7	1.7	1.7								1.7	4.1
ESE	1.7	1.7	1.7	1.7								1.7	4.1
SE	1.7	1.7	1.7	1.7								1.7	4.1
SSE	1.7	1.7	1.7	1.7								1.7	4.1
S	1.7	1.7	1.7	1.7								1.7	4.1
SSW	1.7	1.7	1.7	1.7								1.7	4.1
SW	1.7	1.7	1.7	1.7								1.7	4.1
WSW	1.7	1.7	1.7	1.7								1.7	4.1
W	1.7	1.7	1.7	1.7								1.7	4.1
WNW	1.7	1.7	1.7	1.7								1.7	4.1
NW	1.7	1.7	1.7	1.7								1.7	4.1
NNW	1.7	1.7	1.7	1.7								1.7	4.1
VARBL													
CALM													
	25.0	34.0	12.0	2.0								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: 77-10 YEARS: 1977 MONTH: 2  
CLASS: ALL WEATHER HOURS (L.S.T.): 2

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0									3.0	3.0
NNE	1.0	1.0	1.0									3.0	3.0
NE	1.0	1.0	1.0									3.0	3.0
ENE	1.0	1.0	1.0	1.0								3.0	3.0
E	1.0	1.0	1.0	1.0								3.0	3.0
ESE	1.0	1.0	1.0	1.0								3.0	3.0
SE	1.0	1.0	1.0	1.0								3.0	3.0
SSE	1.0	1.0	1.0	1.0								3.0	3.0
S	1.0	1.0	1.0	1.0								3.0	3.0
SSW	1.0	1.0	1.0	1.0								3.0	3.0
SW	1.0	1.0	1.0	1.0								3.0	3.0
WSW	1.0	1.0	1.0	1.0								3.0	3.0
W	1.0	1.0	1.0	1.0								3.0	3.0
WNW	1.0	1.0	1.0	1.0								3.0	3.0
NW	1.0	1.0	1.0	1.0								3.0	3.0
NNW	1.0	1.0	1.0	1.0								3.0	3.0
VARBL													
CALM													
	27.1	27.4	11.0	3.0	1.0							100.0	1.4

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_  
 CLASS: \_\_\_\_\_ HOURS (LST): \_\_\_\_\_  
 CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
NNE	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	5.0
NE	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
ENE	0.0	0.0	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
ESE	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.0	0.0	17.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_  
HOURS (LST) \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	1.0	•	•								1.0	1.0
NNE	1.0	1.0	•	•								2.0	4.7
NE	•	1.0										1.0	•
ENE	•	2.0	1.0									3.0	•
E	•	•	•									1.0	•
ESE		1.0	•									1.0	•
SE	1.0	•										2.0	•
SSE	1.0	•										1.0	3.4
S	1.0	1.0										2.0	7.5
SSW	1.0	1.0		•								2.0	4.7
SW	1.0	2.0	•									3.0	•
WSW	•	1.0	•									2.0	•
W	•	1.0	1.0		•							2.0	•
WNW	1.0	4.0	1.0	1.0								6.0	1.1
NW	•	4.0	1.0									5.0	1.1
NNW	2.0	1.0	1.0	•								4.0	•
VARBL													
CALM												1.0	
	17.0	30.0	7.0	3.0	•							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•								4.0	3.0
NNE	•	•	•									1.0	1.0
NE	•	•	1.0									•	3.0
ENE	1.0	1.0	1.0									4.0	4.0
E	•	1.0	1.0	•								1.0	3.0
ESE													4.0
SE	•	•										1.0	4.0
SSE	•	•	•	•								1.0	3.0
S	1.0	1.0	•	•								3.0	3.0
SSW	•	•	•	•								3.0	4.0
SW	1.0	1.0	1.0	•								3.0	4.0
WSW	•	•	1.0	•								•	4.0
W	•	•	1.0	•								•	4.0
WNW	•	•	1.0	•	•							7.0	4.0
NW	•	•	1.0	•								•	3.0
NNW	•	•	•	•								4.0	4.0
VARBL													
CALM													
	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

TOTAL NUMBER OF OBSERVATIONS

NAVY WEATHER SERVICE  
DETACHMENT  
ASHKEVELLE

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (LST) \_\_\_\_\_

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								1.0	4.0
NNE	1.0	1.0	1.0	1.0								1.0	4.0
NE	1.0	1.0	1.0	1.0								1.0	4.0
ENE	1.0	1.0	1.0	1.0								1.0	4.0
E	1.0	1.0	1.0	1.0								1.0	4.0
ESE	1.0	1.0	1.0	1.0								1.0	4.0
SE	1.0	1.0	1.0	1.0								1.0	4.0
SSE	1.0	1.0	1.0	1.0								1.0	4.0
S	1.0	1.0	1.0	1.0								1.0	4.0
SSW	1.0	1.0	1.0	1.0								1.0	4.0
SW	1.0	1.0	1.0	1.0								1.0	4.0
WSW	1.0	1.0	1.0	1.0								1.0	4.0
W	1.0	1.0	1.0	1.0								1.0	4.0
WNW	1.0	1.0	1.0	1.0								1.0	4.0
NW	1.0	1.0	1.0	1.0								1.0	4.0
NNW	1.0	1.0	1.0	1.0								1.0	4.0
VARBL													
CALM													
	2.0	2.0	2.0	2.0	1.0							1.0	3.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

HOURLY OBSERVATIONS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ENE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
E	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
W	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VARBL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CALM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVY WEATHER SERVICE  
101 FARMHILL  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

1

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								1.0	1.0
NNE		1.0	1.0	1.0								1.0	1.0
NE	1.0	1.0	1.0	1.0								1.0	1.0
ENE		1.0	1.0	1.0								1.0	1.0
E	1.0	1.0	1.0	1.0								1.0	1.0
ESE	1.0	1.0	1.0	1.0								1.0	1.0
SE		1.0	1.0	1.0								1.0	1.0
SSE	1.0	1.0	1.0	1.0								1.0	1.0
S	1.0	1.0	1.0	1.0								1.0	1.0
SSW	1.0	1.0	1.0	1.0								1.0	1.0
SW	1.0	1.0	1.0	1.0								1.0	1.0
WSW	1.0	1.0	1.0	1.0								1.0	1.0
W	1.0	1.0	1.0	1.0								1.0	1.0
WNW	1.0	1.0	1.0	1.0								1.0	1.0
NW	1.0	1.0	1.0	1.0								1.0	1.0
NNW	1.0	1.0	1.0	1.0								1.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS 11 5 T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•	•							•	•
NNE	•	•	•	•	•							•	•
NE	•	•	•	•	•							•	•
ENE	•	•	•	•	•							•	•
E	•	•	•	•	•							•	•
ESE	•	•	•	•	•							•	•
SE	•	•	•	•	•							•	•
SSE	•	•	•	•	•							•	•
S	•	•	•	•	•							•	•
SSW	•	•	•	•	•							•	•
SW	•	•	•	•	•							•	•
WSW	•	•	•	•	•							•	•
W	•	•	•	•	•							•	•
WNW	•	•	•	•	•							•	•
NW	•	•	•	•	•							•	•
NNW	•	•	•	•	•							•	•
VARBL													
CALM													
	•	•	•	•	•	•	•	•	•	•	•	1	•

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								11.0	1.0
NNE	1.0	1.0	1.0	1.0								4.0	4.7
NE	1.0	1.0	1.0	1.0								3.0	3.0
ENE	1.0	1.0	1.0	1.0								2.0	2.1
E	1.0	1.0	1.0	1.0								1.0	1.0
ESE	1.0	1.0	1.0	1.0								1.0	1.0
SE	1.0	1.0	1.0	1.0								1.0	1.0
SSE	1.0	1.0	1.0	1.0								1.0	1.0
S	1.0	1.0	1.0	1.0								1.0	1.0
SSW	1.0	1.0	1.0	1.0								2.0	2.0
SW	1.0	1.0	1.0	1.0								7.0	4.0
WSW	1.0	1.0	1.0	1.0								1.0	1.0
W	1.0	1.0	1.0	1.0								7.0	1.0
WNW	1.0	1.0	1.0	1.0								2.0	2.0
NW	1.0	1.0	1.0	1.0								4.0	1.0
NNW	1.0	1.0	1.0	1.0								5.0	5.7
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS (L S T) \_\_\_\_\_  
 YEARS \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								1.0	1.0
NNE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
ENE	1.0	1.0	1.0	1.0	1.0							4.0	1.0
E	1.0	1.0	1.0	1.0	1.0							1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
S	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0							4.0	1.0
SW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
W	1.0	1.0	1.0	1.0	1.0							1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0							7.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0						1.0	4.0

TOTAL NUMBER OF OBSERVATIONS



PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0								0.0	0.0
NNE	0	0	0	0								0.0	0.0
NE	0	1	0	0								1.0	0.0
ENE	0	1	0	0								0.0	0.0
E	0	1	1	0								0.0	0.0
ESE	0	0	0	0								0.0	0.0
SE	1	1	0	0								0.0	0.0
SSE	1	0	0	0								0.0	0.0
S	0	0	0	0								0.0	0.0
SSW	1	1	1	0								4.0	0.0
SW	0	0	0	0								0.0	0.0
WSW	0	1	0	0								0.0	0.0
W	0	0	0	0								0.0	0.0
WNW	0	0	0	0								0.0	0.0
NW	0	0	0	0								0.0	0.0
NNW	0	1	0	1								0.0	0.0
VARBL												0.0	0.0
CALM												0.0	0.0
	0.0	0.0	1.0	0.0	0.0							1.0	0.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_

STATION \_\_\_\_\_ YEARS \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (LST) \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								4.0	1.0
NNE	1.0	1.0	1.0									4.0	1.0
NE	1.0	1.0	1.0									4.0	1.0
ENE	1.0	1.0	1.0	1.0								4.0	1.0
E	1.0	1.0	1.0	1.0	1.0							4.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0	1.0						4.0	1.0
SE	1.0	1.0	1.0	1.0	1.0	1.0	1.0					4.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				4.0	1.0
S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			4.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		4.0	1.0
SW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	1.0
W	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	1.0
NW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	1.0
VARBL													
CALM													
	27.7	27.7	14.7	4.7	1.7							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								3.0	2.2
NNE	1.0	1.0	1.0									3.0	2.1
NE		1.0	1.0									3.0	2.4
ENE	1.0	1.0	1.0	1.0								3.0	2.4
E	1.0	1.0	1.0	1.0								3.0	2.4
ESE	1.0	1.0	1.0	1.0								3.0	2.4
SE	1.0	1.0	1.0	1.0								3.0	2.4
SSE	1.0	1.0	1.0	1.0								3.0	2.4
S	1.0	1.0	1.0	1.0								3.0	2.4
SSW	1.0	1.0	1.0	1.0								3.0	2.4
SW	1.0	1.0	1.0	1.0								3.0	2.4
WSW	1.0	1.0	1.0	1.0								3.0	2.4
W	1.0	1.0	1.0	1.0								3.0	2.4
WNW	1.0	1.0	1.0	1.0								3.0	2.4
NW	1.0	1.0	1.0	1.0								3.0	2.4
NNW	1.0	1.0	1.0	1.0								3.0	2.4
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		1.0	2.0	1.0								2.0	1.1
NNE		1.0	1.0									4.0	6.0
NE		1.0	1.0									2.0	4.0
ENE	1.0	1.0	1.0									2.0	6.0
E	1.0	1.0	1.0		1.0							7.0	7.0
ESE		1.0	1.0									1.0	4.0
SE	1.0	1.0	1.0									1.0	4.0
SSE		1.0	1.0									1.0	7.0
S	1.0	1.0	1.0	1.0								2.0	6.0
SSW	1.0	1.0	1.0									2.0	7.0
SW	1.0	1.0	1.0									3.0	7.0
WSW	1.0	1.0	1.0	1.0								7.0	7.0
W	1.0	1.0	1.0	1.0								12.0	6.0
WNW	1.0	1.0	1.0	1.0	1.0							12.0	6.0
NW	1.0	1.0	1.0	1.0	1.0							12.0	6.0
NNW	1.0	1.0	1.0	1.0	1.0							6.0	6.0
VARBL													
CALM												12.0	
	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	6.6

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: 17 HOURS (LST): \_\_\_\_\_

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.0	2.0									3.0	4.9
NNE	0	2.0	1.0									3.0	6.2
NE	0	1.0	1.0									2.0	6.6
ENE	0	0	1.0									1.0	6.6
E	0	1.0	1.0	0.7								2.7	7.4
ESE	0	0	0.7									1.7	6.6
SE	0	0	0									1.7	4.6
SSE	1.0	0.7	1.0									2.7	5.3
S	0	1.0	1.0	0.7								3.0	7.1
SSW	0	2.0	2.0	1.0	0.7							7.7	6.7
SW	0	1.0	2.0	0.7								5.0	7.1
WSW	0	1.0	2.0	0.7								4.0	7.4
W	0	4.0	6.0	1.0	0.7	0.7						14.0	6.6
WNW	0	0.3	2.0	0.7	0.7							11.0	6.7
NW	0	0.3	0	0.7	0.7							11.0	6.7
NNW	0	1.0	0	0.7	0.7							17.0	6.9
VARBL													
CALM													
	0	0.0	42.0	17.0	1.0	0.7						10.0	7.4

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

LL 221

CLASS

HOURS (L S T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	0.0	0.0	1.0								7.0	0.7
NNE	1.0	0.0	0.0									0.0	0.0
NE	1.0	0.0	0.0									0.0	0.0
ENE	0.0	1.0	1.0									0.0	0.0
E	1.0	1.0	1.0	1.0								0.0	0.0
ESE	0.0	0.0	0.0									0.0	0.0
SE	0.0	0.0	0.0	0.0								0.0	0.0
SSE	0.0	0.0	0.0	0.0								0.0	0.0
S	1.0	1.0	1.0									0.0	0.0
SSW	1.0	0.0	0.0	0.0								0.0	0.0
SW	1.0	1.0	0.0	0.0								0.0	0.0
WSW	0.0	0.0	0.0									0.0	0.0
W	1.0	0.0	0.0	0.0	0.0							0.0	0.0
WNW	1.0	0.0	0.0	0.0	0.0							0.0	0.0
NW	1.0	0.0	0.0	0.0	0.0							0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0							0.0	0.0
VARBL													
CALM													
	1.0	1.0	3.0	1.0	1.0							1.0	0.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: \_\_\_\_\_ MONTH: \_\_\_\_\_

STATION: \_\_\_\_\_ YEARS: \_\_\_\_\_

CLASS: \_\_\_\_\_

CONDITION: \_\_\_\_\_

MOORE (L S Y): \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.0	1.0									2.0	5.0
NNE	0	1.0	0									2.0	4.0
NE	0	0	0									0	0
ENE	0	0	0									1.0	0
E	0	1.0	0		0							4.0	5.0
ESE	0	1.0	0	0								0	0
SE	0	0	0									1.0	0
SSE	0	1.0	0	0								2.0	0
S	0	0	0	0								0	0
SSW	0	0	0									0	0
SW	0	0	1.0									0	0
WSW	0	1.0	1.0	0								0	0
W	0	0	0									11.0	4.0
WNW	0	0	0	0	0							0	0
NW	0	0	0	1.0								9.0	7.0
NNW	0	0	0	0								7.0	0
VARBL													
CALM												17.0	
	34.0	34.0	30.0	7.0	0							10.0	4.5

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	1.0	0	0	0	0	0	0	0	0	0	0	0
NE	1.0	1.0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	1.0	1.0	0	0	0	0	0	0	0	0	0	0
E	0	1.0	1.0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	1.0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	1.0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	1.0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS LIST \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								4.0	1.0
NNE	1.0	1.0	1.0									3.0	1.0
NE	1.0	1.0	1.0									2.0	1.0
ENE	1.0	1.0	1.0	1.0								1.0	1.0
E	1.0	1.0	1.0	1.0	1.0							1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
S	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
W	1.0	1.0	1.0	1.0	1.0							1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0							1.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS 11 5 T

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NNE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
ENE	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
E	1.0	1.0	1.0	1.0	1.0	1.0	1.0					1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	1.0
S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
W	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VARBL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CALM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVY AIRCRAFT SERVICE  
ATTACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ YEARS \_\_\_\_\_  
 HOURS (LST) \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0								1.0	1.0
NNE	1.0	1.0	1.0	1.0								1.0	1.0
NE	1.0	1.0	1.0									1.0	1.0
ENE	1.0	1.0	1.0	1.0								1.0	1.0
E	1.0	1.0	1.0									1.0	1.0
ESE	1.0	1.0	1.0									1.0	1.0
SE	1.0	1.0	1.0									1.0	1.0
SSE	1.0	1.0	1.0	1.0								1.0	1.0
S	1.0	1.0	1.0	1.0								1.0	1.0
SSW	1.0	1.0	1.0									1.0	1.0
SW	1.0	1.0	1.0									1.0	1.0
WSW	1.0	1.0	1.0									1.0	1.0
W	1.0	1.0	1.0	1.0								1.0	1.0
WNW	1.0	1.0	1.0	1.0								1.0	1.0
NW	1.0	1.0	1.0	1.0								1.0	1.0
NNW	1.0	1.0	1.0	1.0								1.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETROIT  
DETROIT, MI

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS LST

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS

SMOS

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (LST) \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			1.0	1.0								7.1	1.0
NNE		1.0	1.0	1.0								4.0	1.0
NE		1.0	1.0	1.0								3.0	1.0
ENE		1.0	1.0	1.0								3.0	1.0
E		2.0	1.0	1.0								3.0	1.0
ESE		1.0	1.0									2.0	1.0
SE		1.0	1.0									2.0	1.0
SSE		1.0	1.0									2.0	1.0
S		1.0	1.0									2.0	1.0
SSW		1.0	1.0									2.0	1.0
SW		1.0	1.0									2.0	1.0
WSW		2.0	1.0	1.0								3.0	1.0
W		2.0	1.0	1.0								3.0	1.0
WNW		2.0	1.0	1.0								3.0	1.0
NW		2.0	1.0	1.0								3.0	1.0
NNW		2.0	1.0	1.0								3.0	1.0
VARBL													
CALM													
	10.0	20.0	20.0	14.0	14.0	1.0						10.0	1.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_

CONDITION \_\_\_\_\_

HOURE (LST) \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	1.								7.7	7.3
NNE	•	1.	1.	•								3.7	7.3
NE	•	•	•									1.0	4.5
ENE	•	1.	•	•								•	4.3
E	•	•	•	•								4.	•
ESE	•	1.										•	•
SE				•								•	11.
SSE	•	1.	•	•								•	5.6
S	•	1.	1.	•								•	4.2
SSW	•	1.	1.	1.7	•							4.5	7.4
SW	1.	1.	1.7	•								•	•
WSW	•	•	1.	•								•	•
W	•	•	1.	1.7	•							11.	4
WNW	•	•	•	1.5	•							10.	•
NW	•	•	•	2.5	1.7							•	10.1
NNW		•	•	4.5	1.							10.	10.1
VARBL												•	
CALM												•	
	11.0	20.0	27.0	20.0	1.0							110.	7.4

TOTAL NUMBER OF OBSERVATIONS

NAVAL AIRFIELD SERVICE  
ATTACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0.0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0.0	1.0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0.0	1.0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	1.0	0	0	0	0	0	0	0	0	0	0
SW	0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
WSW	0	0.0	1.0	0.0	0	0	0	0	0	0	0	0	0
W	0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
WNW	0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0
NW	0	0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
NNW	0	0	0.0	0.0	0.0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1.7	0.0	2.0	1.0	0.0	0	0	0	0	0	0	1.0	0.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0	1	1	0	0	0	0	0	0	0	0	0.0	7.1
NNE	0	0	1	0	0	0	0	0	0	0	0	0.0	6.0
NE	0	0	0	0	0	0	0	0	0	0	0	0.0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0.0	4.0
E	0	0	1	0	0	0	0	0	0	0	0	0.0	7.0
ESE	0	1	0	0	0	0	0	0	0	0	0	0.0	6.0
SE	0	0	0	0	0	0	0	0	0	0	0	0.0	3.0
SSE	0	0	0	0	0	0	0	0	0	0	0	0.0	0
S	0	1	1	0	0	0	0	0	0	0	0	0.0	0.1
SSW	0	0	1	0	0	0	0	0	0	0	0	0.0	0.0
SW	0	0	0	1	0	0	0	0	0	0	0	0.0	0.2
WSW	0	1	1	0	0	0	0	0	0	0	0	0.0	0.3
W	0	0	1	0	0	0	0	0	0	0	0	0.0	1.4
WNW	0	0	0	1	0	0	0	0	0	0	0	0.0	7.3
NW	0	0	0	0	0	0	0	0	0	0	0	0.0	7.2
NNW	0	0	1	0	0	0	0	0	0	0	0	0.0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0.0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0.0	0
	1.0	2.0	2.0	1.0	1.0	0	0	0	0	0	0	100.0	4.0

TOTAL NUMBER OF OBSERVATIONS



NAVAL WEATHER SERVICE  
 DETACHMENT  
 ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

STATION NAME \_\_\_\_\_ STATION \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS (LST) \_\_\_\_\_

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ENE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
E	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
W	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VARBL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CALM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME: ASHEVILLE, NC MONTH: SEP YEARS: 1955  
CLASS: 11 HOURS (LST): 24

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.1	1.1	1.0	1.0							1.0	1.0
NNE	1.0	1.0	1.0	1.0	1.0							1.0	1.0
NE	1.0	1.1	1.0	1.1	1.0							1.0	1.0
ENE	1.1	1.0	1.0	1.0	1.1	1.0						4.0	1.0
E	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
S	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
W	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0						1.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NAME ALL YEARS ALL MONTH ALL HOURS ALL

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	1.7	.6	.2	.2						1.0	5.0
NNE	.2	1.0	.2	.2	.2	.2						2.0	5.7
NE	.2	1.0	.2	.2	.2	.2						2.0	5.5
ENE	.2	1.0	.2	.2	.2	.2						3.0	5.0
E	1.0	1.0	1.0	.2	.2	.2	.2					4.0	5.0
ESE	.2	1.0	.2	.2	.2	.2						2.0	5.0
SE	.2	1.0	.2	.2	.2	.2						2.0	5.0
SSE	.2	1.0	.2	.2	.2	.2	.2					2.0	5.0
S	1.0	1.0	1.0	.2	.2	.2	.2	.2				2.0	5.0
SSW	1.0	1.0	1.0	.2	.2	.2	.2	.2				4.0	5.0
SW	1.0	2.0	1.0	.2	.2	.2	.2	.2				2.0	5.0
WSW	1.0	2.0	1.0	.2	.2	.2	.2	.2				2.0	5.0
W	2.0	4.0	2.0	1.0	.2	.2	.2	.2				1.0	5.0
WNW	1.0	2.0	2.0	1.0	.2	.2	.2	.2				2.0	5.0
NW	1.0	2.0	2.0	1.0	.2	.2	.2	.2				2.0	5.0
NNW	1.0	2.0	2.0	1.0	.2	.2	.2	.2				2.0	5.0
VARBL													
CALM												17.0	
	1.0	1.0	2.0	.2	1.0	.2	.2	.2				1.0	5.0

TOTAL NUMBER OF OBSERVATIONS

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ENE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
E	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ESE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
S	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
W	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VARBL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CALM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NOCD, Federal Building  
Asheville, N. C.

## PART D

## CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By Month - all years and all hours combined
3. By Month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for each station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

Beginning in July 1948 for Air Force stations and January 1949 for NWS and U.S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

# EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq 0$
NO CEILING											
$\geq 1800$											
$\geq 1500$											
$\geq 1200$											
$\geq 1000$											
$\geq 900$											
$\geq 800$											
$\geq 700$											
$\geq 600$											
$\geq 500$											
$\geq 400$											
$\geq 300$											
$\geq 200$											
$\geq 100$											
0											

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.

Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

## PART D

### ADDITIONAL EXAMPLES

#### EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling  $< 1500$  feet and/or visibility  $< 3$  miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling  $< 1500$  feet and/or visibility  $< 3$  miles.

Likewise, the percentage of observations with ceiling  $< 500$  feet and/or visibility  $< 1$  mile is 2.6, obtained by subtracting 97.4 from 100.0.

#### EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $> 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

## PART D

## SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover and total number of observations. It is presented in two tables as follows:

1. by month and annual - all hours and all years combined.
2. by month - by standard 3-hour groups.

Note: (1) Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

Note: (2) Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

<u>OKTAS</u>	<u>TENTHS</u>
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

Note: (3) Beginning in 1981 the symbols of Clear, Scattered, Broken, Overcast, and Obscured were used as input for the Total Sky Cover. Following are the conversions:

Clear converted to 0/10  
 Scattered converted to 3/10  
 Broken converted to 9/10  
 Overcast converted to 10/10  
 Obscured converted to 10/10



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1600																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

STATION NAME

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS LIST \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL RECORD - 50105

# CEILING VERSUS VISIBILITY

NAME OF THE STATION: DELTAHUTCH AIRPORT, ALA.

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL VOICEDIRECT 5505

# CEILING VERSUS VISIBILITY

NAVY WEATHER SERVICE DETACHMENT, WASHINGTON, D.C.

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCENMET SMOS

# CEILING VERSUS VISIBILITY

AVAL WEATHER SERVICE DETACHMENT ASHLAND, NC

STATION

STATION NAME

YEARS

MOUTH

HOURS U.S.T.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
AI 20000														
AI 18000														
AI 16000														
AI 14000														
AI 12000														
AI 10000														
AI 9000														
AI 8000														
AI 7000														
AI 6000														
AI 5000														
AI 4500														
AI 4000														
AI 3500														
AI 3000														
AI 2500														
AI 2000														
AI 1800														
AI 1500														
AI 1200														
AI 1000														
AI 900														
AI 800														
AI 700														
AI 600														
AI 500														
AI 400														
AI 300														
AI 200														
AI 100														
AI 0														

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEAN:JET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, LANGLEY VILLAGE

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

DIRT, AVOCET, SMOS



# CEILING VERSUS VISIBILITY

U.S. AIR FORCE, 10TH AIR GROUP, DETACHMENT, ASHEVILLE, NC

STATION NAME  
 YEARS  
 MONTH  
 HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING	1	1	1	1	1	1	1	1	1	1	1	1	1	1
≥ 20000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4500	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3500	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2500	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1800	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1500	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1200	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
900	1	1	1	1	1	1	1	1	1	1	1	1	1	1
800	1	1	1	1	1	1	1	1	1	1	1	1	1	1
700	1	1	1	1	1	1	1	1	1	1	1	1	1	1
600	1	1	1	1	1	1	1	1	1	1	1	1	1	1
500	1	1	1	1	1	1	1	1	1	1	1	1	1	1
400	1	1	1	1	1	1	1	1	1	1	1	1	1	1
300	1	1	1	1	1	1	1	1	1	1	1	1	1	1
200	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TOTAL NUMBER OF OBSERVATIONS

DIPJAVOCEANDET SMOS

# CEILING VERSUS VISIBILITY

NAVY WEATHER SERVICE DETACHMENT, LASHBURNVILLE, NC

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS 12 5 1

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
≥ 8000														
≥ 7000														
≥ 6000														
≥ 5000														
≥ 4500														
≥ 4000														
≥ 3500														
≥ 3000														
≥ 2500														
≥ 2000														
≥ 1800														
≥ 1500														
≥ 1200														
≥ 1000														
≥ 900														
≥ 800														
≥ 700														
≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
0														

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

DIP, AVOCEANDET SMOS

# CEILING VERSUS VISIBILITY

NAVY AIR FORCE JOINT DETACHMENT LAKEHURST, N.J.

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL REPORT SMOS

## JAMES EARL RAY, JR., ARLINGTON, NC

STATION NAME

—

**MONYM**

HOURS 1157

## 427

427

TOTAL NUMBER OF OBSERVATIONS

## THE ADVANCEMENT OF SOLID

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_  
 YEARS \_\_\_\_\_  
 MONTH \_\_\_\_\_  
 HOURS (L.S.T.) \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
9000															
8000															
7000															
6000															
5000															
4500															
4000															
3500															
3000															
2500															
2000															
1800															
1500															
1200															
1000															
900															
800															
700															
600															
500															
400															
300															
200															
100															
0															

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

## SYNOPSIS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONSIEUR L. S. Y.

[illegible]

TOTAL NUMBER OF OBSERVATIONS

STATION - OM

STATION NAME

5873A

— MONTH

HOURS : L S Y

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

TOTAL NUMBER OF OBSERVATIONS

[illegible]



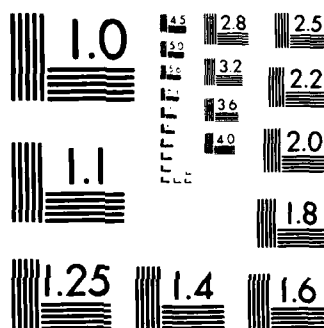
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
WILLOW GROVE PENNSYLVANIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

3/4

F/G 4/2

NL

A 10x10 grid of squares, with the top-left square missing, forming a shape resembling a staircase or a corner.



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS 1963 A

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (1, 5, 7, 9)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 20000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 18000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 16000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 14000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 12000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 10000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 9000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 8000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 7000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 6000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 5000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 4500	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 4000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 3500	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 3000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 2500	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 2000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 1800	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 1500	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 1200	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 1000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 900	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 800	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 700	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 600	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 500	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 400	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 300	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 200	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 100	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
0	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE DETROIT, MICHIGAN

STATION NAME  
 YEARS  
 MONTH  
 ALL  
 HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING	51.7	50.3	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
≥ 20000	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
≥ 18000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 16000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 14000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 12000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 10000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 9000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 8000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 7000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 6000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 5000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 4500	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 4000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 3500	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 3000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 2500	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 2000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 1800	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 1500	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 1200	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 1000	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 900	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 800	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 700	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 600	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 500	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 400	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 300	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 200	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 100	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
0	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VISIBILITY

STATION NAME  
TEARS  
MONTH  
HOURS (L.S.T.)PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000	1.0	4.0	4.0	6.7	6.7	7.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
At 18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 1600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 1400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
At 100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

12

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHLEIGH, ILL.

STATION NAME

STATION NAME

STATION NAME

STATION NAME

STATION NAME

STATION NAME

STATION NAME

STATION NAME

STATION NAME

STATION NAME

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 20000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 18000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 16000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 14000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 12000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 10000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 9000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 8000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 7000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 6000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 5000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 4500	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 4000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 3500	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 3000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 2500	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 2000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 1800	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 1500	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 1200	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 1000	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 900	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 800	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 700	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 600	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 500	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 400	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 300	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 200	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 100	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION NAME: ASHEVILLE YEARS: 1952 MONTH: NOV STATION: 17 HOURS (L.S.T.): 1700

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 20000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 18000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 16000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 14000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 12000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 10000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 9000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 8000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 7000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 6000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 5000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 4500	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 4000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 3500	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 3000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 2500	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 2000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 1800	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 1500	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 1200	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 1000	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 900	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 800	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 700	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 600	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 500	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 400	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 300	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 200	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 100	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
AI 0	17.7	41.0	43.0	43.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEAN/MET SMOS

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

DATE

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

10

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING	17.1	20.3	47.2	64.2	44.5	4.0	44.3	44.3	43.7	44.3	44.5	44.3	44.3
≥ 20000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 18000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 16000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 14000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 12000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 10000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 9000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 8000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 7000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 6000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 5000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 4500	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 4000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 3500	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 3000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 2500	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 2000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 1800	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 1500	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 1200	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 1000	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 900	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 800	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 700	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 600	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 500	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 400	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 300	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 200	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 100	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5
≥ 0	1.1	49.4	51.7	11.6	11.6	11.6	51.5	11.6	11.6	51.5	51.5	51.5	51.5

TOTAL NUMBER OF OBSERVATIONS

10



# CEILING VERSUS VISIBILITY

STATION NAME  
 YEARS  
 MONTH  
 HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.1	42.8	41.7	31.1	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
≥ 20000	1.1	47.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 18000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 16000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 14000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 12000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 10000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 9000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 8000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 7000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 6000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 5000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 4500	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 4000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 3500	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 3000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 2500	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 2000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 1800	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 1500	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 1200	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 1000	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 900	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 800	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 700	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 600	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 500	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 400	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 300	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 200	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 100	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
0	1.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVY WEATHER SERVICE DETACHMENT, LITTLE ROCK, AR

STATION NAME: STATION NAME YEARS: 1954 MONTH: 1 HOURS (L.S.T.): 1

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING	1.0	41.6	47.7	42.2	40.0	37.0	34.0	31.0	28.0	25.0	22.0	19.0	16.0
≥ 20000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 18000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 16000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 14000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 12000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 10000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 9000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 8000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 7000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 6000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 5000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 4500	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 4000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 3500	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 3000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 2500	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 2000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 1800	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 1500	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 1200	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 1000	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 900	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 800	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 700	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 600	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 500	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 400	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 300	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 200	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 100	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7
≥ 0	17.3	47.7	47.7	48.4	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
≥ 20000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 18000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 16000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 14000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 12000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 10000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 9000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 8000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 7000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 6000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 5000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 4500	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 4000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 3500	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 3000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 2500	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 2000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 1800	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 1600	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 1400	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 1200	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 1000	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 900	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 800	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 700	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 600	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 500	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 400	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 300	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 200	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
At 100	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
0	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAME OF AIRPORT: ... LOCATION: ...

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

STATION NAME

TEARS

MONTH

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

DIR: AVOCAN: SET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, APO FHEU NC

STATION

STATE NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
≥ 20000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
18000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
16000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
14000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
12000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
10000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
9000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
8000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
7000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
6000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
4500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
4000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
3000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1800	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1200	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
900	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
800	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
700	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
600	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
400	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
300	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
200	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
100	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS

# STATION

STATION NAME

YEARS

**ALFONSO**

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

—

**HOURS 11 30 - 1 30 P.M.**

VISIBILITY (STATUTE MILES)															
CEILING 'FEET'	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	
NO CEILING															
≥ 20000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 18000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 16000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 14000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 12000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 10000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 9000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 8000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 7000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 6000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 5000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 4500	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 4000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 3500	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 3000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 2500	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 2000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 1800	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 1500	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 1200	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 1000	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 900	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 800	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 700	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 600	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 500	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 400	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 300	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 200	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 100	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	
≥ 0	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)  
 HOURS 1 2 3 4 5 6 7 8 9 10 11 12

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000												
18000												
16000												
14000												
12000												
10000												
9000												
8000												
7000												
6000												
5000												
4500												
4000												
3500												
3000												
2500												
2000												
1800												
1500												
1200												
1000												
900												
800												
700												
600												
500												
400												
300												
200												
100												
0												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

NAVY WEATHER SERVICE DETACHMENT 41, ASHLEYVILLE

120

MONTH

7

HOURS (L.S.T.)

YEARS

STATION NAME

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000		47.7	5.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 18000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 16000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 14000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 12000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 10000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 9000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 8000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 7000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 6000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 5000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 4500		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 4000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 3500		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 3000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 2500		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 2000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 1800		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 1500		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 1200		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 1000		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 900		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 800		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 700		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 600		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 500		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 400		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 300		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 200		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
AI 100		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
0		4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7

TOTAL NUMBER OF OBSERVATIONS

DIR:AVOCEAN:MET SMOS



# CEILING VERSUS VISIBILITY

ASHEVILLE METEOROLOGICAL OFFICE, ASHEVILLE, NC

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING														
≥ 20000	1.7	4.7	7.1	11.1	11.1	11.1	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
18000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
16000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
14000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
12000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
10000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
9000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
8000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
7000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
6000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
5000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
4500	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
4000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
3500	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
3000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
2500	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
2000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
1800	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
1500	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
1200	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
1000	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
900	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
800	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
700	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
600	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
500	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
400	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
300	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
200	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
100	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
0	1.7	3.0	5.4	7.7	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, LAKEHURST, N.J.

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.0	4.0	4.0	0.0	4.0	0.0	4.0	0.0	0.0	4.0	4.0	4.0	4.0	4.0
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS L.S.T.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 20000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 18000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 16000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 14000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 12000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 10000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 9000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 8000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 7000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 6000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 5000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 4500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 4000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 3500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 3000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 2500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 2000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 1800	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 1500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 1200	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 1000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 900	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 800	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 700	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 600	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 400	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 300	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 200	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 100	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 0	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHIEVILLE, NC

STATION

STATION NAME

YEARS

DIRECTION

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (L & P)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	1.7	3.7	5.7	6.7	11.7	17.7	27.7	37.7	47.7	57.7	67.7	77.7	87.7
≥ 20000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
18000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
16000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
12000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
10000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
9000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
8000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
7000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
6000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
5000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
4500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
4000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
3500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
3000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
2500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
2000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
1800	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
1500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
1200	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
1000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
900	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
800	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
700	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
600	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
400	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
300	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
200	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
100	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

STATION NAME

TEARS

NORTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 18000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 16000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 14000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 12000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 10000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 9000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 8000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 7000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 6000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 5000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 4500	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 4000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 3500	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 3000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 2500	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 2000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 1800	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 1500	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 1200	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 1000	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 900	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 800	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 700	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 600	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 500	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 400	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 300	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 200	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
At 100	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0	1.4	2.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHIEVILLE, NC

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MOUTH

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼
NO CEILING	7.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 20000	2.4	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
At 18000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 16000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 14000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 12000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 10000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 9000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 8000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 7000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 6000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 4500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 4000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 3500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 3000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 2500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 1800	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 1600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 1400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 1200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 800	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At 100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS

SHIP/AVIATION/NET STDS

17A-0000

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

**HOURS: 137**

[illegible]

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION NAME: YEARS: MONTH: HOURS (L.S.T.):

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
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2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAME OF TOWER OR AIRPORT AND ELEVATION

STATION

STATION NAME

YEARS

DIRECTION

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
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1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

DIR. AV. CEAN. MET. SMOS

# CEILING VERSUS VISIBILITY

NAME OF STATION: LAKEVIEW AIRFIELD

STATION

STATION NAME

YEARS

MONTN

HOURS L.S.T.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
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700														
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500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

DIP: JAVUJCEAN: JET SMOS

# CEILING VERSUS VISIBILITY

STATION NAME  
 YEARS  
 MONTH  
 HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
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≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
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700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

# CEILING VERSUS VISIBILITY

NAVAL AIR FORCE CORP. OF TACOMENT, L. ADRIANVILLE, NC

STATION

STATION NAME

YEARS

MOUTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	11.1	1.0	4.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, WHEELVILLE, NC

STATION NAME  
YEARS  
MONTH  
HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
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800															
700															
600															
500															
400															
300															
200															
100															
0															

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCANMET SMOS

# CEILING VERSUS VISIBILITY

NAME OF OFFICER IN CHARGE OF OBSERVATIONS

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
≥ 8000														
≥ 7000														
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≥ 1800														
≥ 1500														
≥ 1200														
≥ 1000														
≥ 900														
≥ 800														
≥ 700														
≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
0														

TOTAL NUMBER OF OBSERVATIONS

OFFICER IN CHARGE

SMOS



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
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600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

DIP\*AVOCEAN\*JET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE (FACILITY) WHEATVILLE

STATION

STATION NAME

TEARS

MONTH

HOURS 11 5 7

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
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600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCANMET SMOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

DIRECTION

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
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300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIP, AVOCEAN, JET, STOS

# CEILING VERSUS VISIBILITY

STATION NAME  
YEARS  
MONTH  
HOURS LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																	
≥ 20000																	
18000																	
16000																	
14000																	
12000																	
10000																	
9000																	
8000																	
7000																	
6000																	
5000																	
4500																	
4000																	
3500																	
3000																	
2500																	
2000																	
1800																	
1500																	
1200																	
1000																	
900																	
800																	
700																	
600																	
500																	
400																	
300																	
200																	
100																	
0																	

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

U.S. AIR FORCE WEATHER SERVICE (FAA) - WASHINGTON, D.C.

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAME OF STATION: \_\_\_\_\_

STATION

STATION NAME

TEARS

MONTH

HOURS: C S T

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
≥ 8000														
≥ 7000														
≥ 6000														
≥ 5000														
≥ 4500														
≥ 4000														
≥ 3500														
≥ 3000														
≥ 2500														
≥ 2000														
≥ 1800														
≥ 1500														
≥ 1200														
≥ 1000														
≥ 900														
≥ 800														
≥ 700														
≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
0														

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DIRT-AVOCEAN-RET SMOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

REPORT ON FORM 1-57

# CEILING VERSUS VISIBILITY

STATION NAME: LAUREL HILL, LAUREL HILL, NC

STATION  
17/05/04/77  
1225

STATION NAME

YEARS

MONTH

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

DIP: JAVOCEAN: 1ET SMOS



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
AI 20000						7.							
AI 18000													
AI 16000						4.							
AI 14000													
AI 12000						4.							
AI 10000						17.							
AI 9000						73.							
AI 8000													
AI 7000						71.							
AI 6000						74.							
AI 5000						7.							
AI 4500													
AI 4000						77.							
AI 3500						77.							
AI 3000						71.							
AI 2500						71.							
AI 2000						71.							
AI 1800						71.							
AI 1500						71.							
AI 1200						71.							
AI 1000						71.							
AI 900						71.							
AI 800						71.							
AI 700						71.							
AI 600						71.							
AI 500						71.							
AI 400						71.							
AI 300						71.							
AI 200						71.							
AI 100						71.							
0						71.							

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ NORTH \_\_\_\_\_  
 PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)  
 HOURS U.S.T. \_\_\_\_\_

CEILING FEET	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000													
≥ 18000													
≥ 16000													
≥ 14000													
≥ 12000													
≥ 10000													
≥ 9000													
≥ 8000													
≥ 7000													
≥ 6000													
≥ 5000													
≥ 4500													
≥ 4000													
≥ 3500													
≥ 3000													
≥ 2500													
≥ 2000													
≥ 1800													
≥ 1500													
≥ 1200													
≥ 1000													
≥ 900													
≥ 800													
≥ 700													
≥ 600													
≥ 500													
≥ 400													
≥ 300													
≥ 200													
≥ 100													
0													

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
NO CEILING																	
≥ 20000																	
18000																	
16000																	
14000																	
12000																	
10000																	
9000																	
8000																	
7000																	
6000																	
5000																	
4500																	
4000																	
3500																	
3000																	
2500																	
2000																	
1800																	
1500																	
1200																	
1000																	
900																	
800																	
700																	
600																	
500																	
400																	
300																	
200																	
100																	
0																	

TOTAL NUMBER OF OBSERVATIONS

DEPT. AVIATION

# CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
≥ 20000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 18000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 16000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 14000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 12000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 10000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 9000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 8000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 7000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 6000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 5000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 4500	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 4000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 3500	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 3000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 2500	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 2000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 1800	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 1500	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 1200	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 1000	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 900	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 800	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 700	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 600	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 500	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 400	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 300	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 200	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
Al 100	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4
0	1.0	4.0	7.4	11.1	17.0	24.1	36.1	50.4	55.0	64.0	66.0	71.0	74.4

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, LAKEHURST, N.J.

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
≥ 20000	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥ 18000	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
≥ 16000	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
≥ 14000	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥ 12000	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 10000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 9000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 8000	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 7000	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥ 6000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
≥ 5000	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
≥ 4500	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
≥ 4000	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 3500	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 3000	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 2500	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 2000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 1800	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 1500	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 1200	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 1000	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 900	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 800	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 700	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 600	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 500	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 400	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 300	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 200	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 100	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVY WEATHER SERVICE DETACHMENT, ASHBURN, NC

STATION

STATION NAME

YEARS

MOUTH

HOURS L.S.T.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
≥ 8000														
≥ 7000														
≥ 6000														
≥ 5000														
≥ 4500														
≥ 4000														
≥ 3500														
≥ 3000														
≥ 2500														
≥ 2000														
≥ 1800														
≥ 1500														
≥ 1200														
≥ 1000														
≥ 900														
≥ 800														
≥ 700														
≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
0														

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCANDET SMOS

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

NAME OF STATION AND LOCATION OF WEATHER BUREAU

STATION

STATION NAME

YEARS

NORTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

DIPLOMA VOCEANTHET STAS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHLEIGH, NC

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
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≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOC:AN:MET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE, LAGUNA BEACH, CALIFORNIA

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
≥ 20000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
18000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
16000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
14000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
12000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
10000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
9000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
8000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
7000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
6000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
5000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
4500	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
4000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
3500	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
3000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
2500	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
2000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
1800	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
1500	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
1200	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
1000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
900	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
800	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
700	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
600	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
500	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
400	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
300	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
200	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
100	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
0	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
≥ 8000														
≥ 7000														
≥ 6000														
≥ 5000														
≥ 4500														
≥ 4000														
≥ 3500														
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≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
0														

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 20000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
18000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
16000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
14000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
12000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
10000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
9000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
8000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
7000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
6000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
4500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
4000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
3500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
3000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1800	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1200	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
900	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
800	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
700	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
600	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
400	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
300	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
200	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
100	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS L.S.T.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														TOTAL NUMBER OF OBSERVATIONS
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
9000															
8000															
7000															
6000															
5000															
4500															
4000															
3500															
3000															
2500															
2000															
1800															
1500															
1200															
1000															
900															
800															
700															
600															
500															
400															
300															
200															
100															
0															

01P1AVOCEANDET SMOS

[illegible]

STATION NAME

YEARS

**MONTH**

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MOORE, L S T

TOTAL NUMBER OF OBSERVATIONS

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies obtained on the selective medium. The results are the mean of three independent experiments. Error bars represent the standard deviation.



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS 1 5 7

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	
NO CEILING																
20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT WHEELVILLE

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

111  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 20000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
18000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4500	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3500	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2500	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1800	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1500	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1000	•	•	•	•	•	•	•	•	•	•	•	•	•	•
900	•	•	•	•	•	•	•	•	•	•	•	•	•	•
800	•	•	•	•	•	•	•	•	•	•	•	•	•	•
700	•	•	•	•	•	•	•	•	•	•	•	•	•	•
600	•	•	•	•	•	•	•	•	•	•	•	•	•	•
500	•	•	•	•	•	•	•	•	•	•	•	•	•	•
400	•	•	•	•	•	•	•	•	•	•	•	•	•	•
300	•	•	•	•	•	•	•	•	•	•	•	•	•	•
200	•	•	•	•	•	•	•	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0	•	•	•	•	•	•	•	•	•	•	•	•	•	•

TOTAL NUMBER OF OBSERVATIONS

DIFF:AVOCEAN:1ET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHESVILLE, NC

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 20000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
18000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
16000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
14000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
12000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
10000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
9000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
8000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
7000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
6000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
5000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
4500	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
4000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
3500	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
3000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
2500	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
2000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1800	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1500	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1200	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
1000	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
900	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
800	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
700	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
600	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
500	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
400	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
300	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
200	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
100	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
0	1.0	1.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCAN-DET SMOS

# CEILING VERSUS VISIBILITY

NAVY AIRCRAFT SERVICE DETACHMENT, AGHRIHILL, NC

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)		VISIBILITY (STATUTE MILES)													
		≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	≥ 20000	1.0	7.0	7.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0
	≥ 18000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 16000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 14000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 12000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 10000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 9000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 8000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 7000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 6000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 5000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 4500	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 4000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 3500	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 3000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
	≥ 2500	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 2000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 1800	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 1500	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 1200	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 1000	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 900	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 800	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 700	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 600	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 500	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 400	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 300	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 200	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 100	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	
≥ 0	1.0	7.0	7.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	

TOTAL NUMBER OF OBSERVATIONS

DIRTAVOCEANJET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, LAFAYETTE, LA

STATION NAME: YEARS: MONTH: HOURS (LST):

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVJAG AIRCRAFT SERVICE DETACHMENT, ASHLAND VILLAGE

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														TOTAL NUMBER OF OBSERVATIONS
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	
NO CEILING															
≥ 20000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
18000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
16000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
14000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
12000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
10000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
9000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
8000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
7000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
6000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
5000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
4500	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
4000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
3500	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
3000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2500	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
1800	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
1500	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
1200	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
1000	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
900	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
800	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
700	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
600	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
500	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
400	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
300	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
200	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
100	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
0	61.7	47.7	47.7	47.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7

DIRNAVOCEANDET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHLEIGH, NC

STATION

STATION NAME

YEARS

MOUTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCENHJET SMOS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
HOURS (LST) \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
AI 20000														
AI 18000														
AI 16000														
AI 14000														
AI 12000														
AI 10000														
AI 9000														
AI 8000														
AI 7000														
AI 6000														
AI 5000														
AI 4500														
AI 4000														
AI 3500														
AI 3000														
AI 2500														
AI 2000														
AI 1800														
AI 1500														
AI 1200														
AI 1000														
AI 900														
AI 800														
AI 700														
AI 600														
AI 500														
AI 400														
AI 300														
AI 200														
AI 100														
0														

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_



# CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_ HOURS: \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

DATA SOURCE: \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCENMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

STATION NAME

YEARS

NORTH

MOVERS 11.5.1

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 20000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
18000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
16000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
14000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
12000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
10000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
9000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
8000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
7000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
6000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
4500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
4000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
3500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
3000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1800	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1200	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
900	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
800	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
700	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
600	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
400	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
300	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
200	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
100	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCANDET SMOS

# CEILING VERSUS VISIBILITY

NAVY AIRCRAFT SERVICE DETACHMENT ASHEVILLE, NC

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING														
≥ 20000	1.0	1.0	4.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18000	1.0	1.0	5.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4500	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3500	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2500	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1800	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1500	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1200	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1000	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
900	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
800	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
700	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
600	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
500	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
400	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
200	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

DIRECTOR GENERAL SET SMOS

# CEILING VERSUS VISIBILITY

NAME OF THE FIELD OFFICER: JACQUES V. LACHARRE

STATION

STATION NAME

YEARS

MONTH

HOURS 11 5 7

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 20000	•	•	•	•	•	•	•	•	•	•	•	•	•
18000	•	•	•	•	•	•	•	•	•	•	•	•	•
16000	•	•	•	•	•	•	•	•	•	•	•	•	•
14000	•	•	•	•	•	•	•	•	•	•	•	•	•
12000	•	•	•	•	•	•	•	•	•	•	•	•	•
10000	•	•	•	•	•	•	•	•	•	•	•	•	•
9000	•	•	•	•	•	•	•	•	•	•	•	•	•
8000	•	•	•	•	•	•	•	•	•	•	•	•	•
7000	•	•	•	•	•	•	•	•	•	•	•	•	•
6000	•	•	•	•	•	•	•	•	•	•	•	•	•
5000	•	•	•	•	•	•	•	•	•	•	•	•	•
4500	•	•	•	•	•	•	•	•	•	•	•	•	•
4000	•	•	•	•	•	•	•	•	•	•	•	•	•
3500	•	•	•	•	•	•	•	•	•	•	•	•	•
3000	•	•	•	•	•	•	•	•	•	•	•	•	•
2500	•	•	•	•	•	•	•	•	•	•	•	•	•
2000	•	•	•	•	•	•	•	•	•	•	•	•	•
1800	•	•	•	•	•	•	•	•	•	•	•	•	•
1500	•	•	•	•	•	•	•	•	•	•	•	•	•
1200	•	•	•	•	•	•	•	•	•	•	•	•	•
1000	•	•	•	•	•	•	•	•	•	•	•	•	•
900	•	•	•	•	•	•	•	•	•	•	•	•	•
800	•	•	•	•	•	•	•	•	•	•	•	•	•
700	•	•	•	•	•	•	•	•	•	•	•	•	•
600	•	•	•	•	•	•	•	•	•	•	•	•	•
500	•	•	•	•	•	•	•	•	•	•	•	•	•
400	•	•	•	•	•	•	•	•	•	•	•	•	•
300	•	•	•	•	•	•	•	•	•	•	•	•	•
200	•	•	•	•	•	•	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•	•	•	•	•	•	•
0	•	•	•	•	•	•	•	•	•	•	•	•	•

TOTAL NUMBER OF OBSERVATIONS

DIPLOVOCEANET 5805

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS TEST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 0
NO CEILING	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 20000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
18000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
900	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
600	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
400	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, LANGLEYVILLE, NC

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DETACHMENT NAME

# CEILING VERSUS VISIBILITY

WATERBURY AIRPORT, WATERBURY, VT., 1957

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

DIRTY-AVOCANDET SMOS



# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS - U.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE OFFICE OF FAULTS AT WASHINGTON

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 20000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 18000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 16000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 14000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 12000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 10000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 9000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 8000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 7000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 6000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 5000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 4500	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 4000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 3500	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 3000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 2500	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 2000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 1800	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 1200	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 1000	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 900	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 800	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 700	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 600	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 500	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 400	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 300	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 200	0	0	0	0	0	0	0	0	0	0	0	0	0
≥ 100	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS

DIR:AVOCEAN:1ET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, LASHBURNVILLE, NC

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 18000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 16000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 14000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 12000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 10000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 9000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 8000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 7000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 6000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 5000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 4500	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 4000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 3500	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 3000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 2500	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 2000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 1800	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 1500	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 1200	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 1000	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 900	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 800	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 700	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 600	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 500	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 400	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 300	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 200	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
≥ 100	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
0	1.0	27.0	5.0	1.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANDET SMOS

# CEILING VERSUS VISIBILITY

NAVJAG WEATHER SERVICE DETACHMENT 1, ASHLVILLE, NC

STATION NAME  
YEARS  
MONTH  
HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

DIRTAVOCEANDET SMOS

# CEILING VERSUS VISIBILITY

NAME OF STATION AND LOCATION OF FACILITY: WASHVILLE, GA

STATION NAME: YEARS: MONTH: HOURS (L.S.T.):

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING													
≥ 20000													
≥ 18000													
≥ 16000													
≥ 14000													
≥ 12000													
≥ 10000													
≥ 9000													
≥ 8000													
≥ 7000													
≥ 6000													
≥ 5000													
≥ 4500													
≥ 4000													
≥ 3500													
≥ 3000													
≥ 2500													
≥ 2000													
≥ 1800													
≥ 1500													
≥ 1200													
≥ 1000													
≥ 900													
≥ 800													
≥ 700													
≥ 600													
≥ 500													
≥ 400													
≥ 300													
≥ 200													
≥ 100													
0													

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

U.S. AIR FORCE WEATHER DETACHMENT, ASHEVILLE, NC

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 20000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 18000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 16000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 14000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 12000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 10000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 9000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 8000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 7000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 6000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 5000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 4500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 4000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 3500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 3000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 2500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 2000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 1800	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 1500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 1200	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 1000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 900	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 800	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 700	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 600	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 400	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 300	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 200	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 100	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7

TOTAL NUMBER OF OBSERVATIONS

DIRECT:AVOCEAN:JET SMOS

# CEILING VERSUS VISIBILITY

STATION NAME  
 YEARS  
 MONTH  
 HOURS LIST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

STAY IN OM

IDENTIFICATION NAME

— **5000** —

**MONTH**

**MOVERS (L S T)**

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

[illegible]

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MORTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

UNIT: AVIATION MET SMOS

THE UNIVERSITY OF CHICAGO

STANDARD

STATION NAME

YEARS

**ALPHAM**

MOORE, L. S. Y.

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

[illegible]

TOTAL NUMBER OF OBSERVATIONS

SMOS

# CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MOUTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_  
 YEARS \_\_\_\_\_  
 MONTH \_\_\_\_\_  
 HOURS (L.S.T.) \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
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1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MOUTH

HOURS LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS LIST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING "FEET"	VISIBILITY (STATUTE MILES)													TOTAL
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0	
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
10000													
9000													
8000													
7000													
6000													
5000													
4500													
4000													
3500													
3000													
2500													
2000													
1800													
1500													
1200													
1000													
900													
800													
700													
600													
500													
400													
300													
200													
100													
0													

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAME AND TITLE OF THE PERSON FILLING IN THIS REPORT

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS 11 5 7

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000													
≥ 18000													
≥ 16000													
≥ 14000													
≥ 12000													
≥ 10000													
≥ 9000													
≥ 8000													
≥ 7000													
≥ 6000													
≥ 5000													
≥ 4500													
≥ 4000													
≥ 3500													
≥ 3000													
≥ 2500													
≥ 2000													
≥ 1800													
≥ 1500													
≥ 1200													
≥ 1000													
≥ 900													
≥ 800													
≥ 700													
≥ 600													
≥ 500													
≥ 400													
≥ 300													
≥ 200													
≥ 100													
0													

TOTAL NUMBER OF OBSERVATIONS

DIRTY/AVOCEAN/DET SMOS



# CEILING VERSUS VISIBILITY

NAVAL AIR FORCE OFFICE OF ENGINEERING, WASHINGTON, D.C.

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

STATION NAME  
MONTH  
YEARS  
HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING														
20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION NAME YEARS MONTH HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 20000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 18000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 16000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 14000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 12000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 10000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 9000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 8000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 7000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 6000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 5000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 4500	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 4000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 3500	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 3000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 2500	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 2000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 1800	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 1500	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 1200	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 1000	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 900	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 800	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 700	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 600	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 500	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 400	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 300	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 200	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
≥ 100	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 20000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
18000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
16000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
14000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
12000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
10000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
9000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
8000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
7000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
6000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
5000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
4500	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
4000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
3500	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
3000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
2500	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
2000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
1800	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
1500	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
1200	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
1000	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
900	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
800	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
700	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
600	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
500	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
400	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
300	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
200	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
100	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
0	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVY WEATHER SERVICE DETACHMENT, ASHLVILLE, NC

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	
NO CEILING														
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEAN:1ET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 20000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 18000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 16000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 14000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 12000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 10000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 9000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 8000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 7000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 6000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 4500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 4000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 3500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 3000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 2500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 2000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 1800	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 1500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 1200	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 1000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 900	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 800	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 700	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 600	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 400	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 300	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 200	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 100	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCAN:JET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (U.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
≥ 20000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
18000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
16000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
14000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
12000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
10000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
9000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
8000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
7000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
6000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
4500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
4000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
3000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1800	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1200	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
900	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
800	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
700	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
600	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
400	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
300	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
200	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
100	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

TOTAL NUMBER OF OBSERVATIONS

DIRECTOR, NAVY, WASHINGTON, D.C.

# CEILING VERSUS VISIBILITY

NAME OF STATION: FORT LAFAYETTE, LAHORE, INDIA

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

# SKY COVER

2

STATION NAME: STATION NUMBER: DATE: MONTH: YEAR: TIME: 24

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	0	1	2	3	4	5	6	7	8	9	10	MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS
	1	10.0			11.7						11.0	42.4	5.0	309
	2	12.0			14.0						11.7	42.7	6.1	309
	3	11.0			17.0						11.0	42.1	6.7	311
	4	11.0			21.0						11.3	45.7	6.9	311
	5	11.7			11.7						22.5	43.1	7.6	311
	6	11.0			21.0						22.3	43.0	7.1	311
	7	11.0			21.3						11.1	36.7	6.1	311
	8	11.0			17.0						11.0	42.0	5.0	310
TOTAL					11.1						11.7	43.7	6.0	2400



### PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

MONTH	HOURS EST	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9		
	•				1.7					1.2	52.8	7.6	12
	•				1.9					1.4	7.7	7.4	2
	•				1.4					1.2	16.7	7.0	20
	•				7.9					1.1	6.0	7.0	4
	•				1.4					1.7	40.0	7.7	2
	•				•					2.1	60.1	7.4	100
	•				2.6					1.9	27.2	7.5	5
	•				1.2					1.2	34.7	7.0	2
TOTAL	•				2.0					1.0	20.1	7.0	200

# SKY COVER

2

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS.

MONTH	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
	0	1	2	3	4	5	6	7	8	9	10	
JAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	48.0	11
FEB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	41.0	11
MAR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	42.0	11
APR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	47.0	11
MAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	45.0	11
JUN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	46.0	11
JUL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	42.0	11
AUG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	47.0	11
SEP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	47.0	11
OCT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	47.0	11
NOV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	47.0	11
DEC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	47.0	11
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	47.0	11

AD-A150 437

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
WILLOW GROVE PENNSYLVANIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

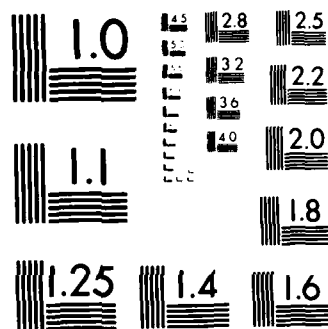
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UNCLASSIFIED

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NL

END



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS 1963-A

# SKY COVER

STATION 11112007, P.

STATION NAME

77-10

PERIOD

APR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
APR	01	30.3			13.7						15.3	37.3	300
	02	31.3			15.3						15.7	37.7	300
	03	24.0			13.3						22.7	35.0	300
	04	17.3			21.7						24.7	35.3	300
	05	10.3			27.3						21.7	38.7	300
	06	14.0			23.7						28.3	36.0	300
	07	13.3			31.7						19.3	36.7	300
	08	32.0			17.7						17.3	33.0	300
	09												
	10												
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29												
	30												
	TOTALS	30.2			31.2						27.4	36.2	2400

人 民 大 学

FILE NO.

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LAST	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9		
47	1	21.5			24.2					15.8	38.7	6.0	310
	4	23.0			17.7					19.0	39.4	6.2	310
	7	19.1			27.0					15.5	45.8	6.6	310
	10	17.3			24.2					19.0	44.5	6.9	310
	13	4.2			27.2					25.5	46.8	7.7	310
	16	6.8			23.5					26.5	43.5	7.4	310
	19	5.6			26.6					26.5	41.0	7.3	310
	22	22.6			23.5					16.8	37.1	5.9	310
TOTALS		11.3			27.7					20.4	42.1	6.8	2480

1  
2  
3  
4  
5

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
SEP	01	21.7			25.0						10.0	33.3	5.9	300
	02	15.7			27.3						19.0	37.0	6.2	300
	03	15.3			22.3						16.7	44.7	6.6	300
	10	10.0			25.7						25.7	38.7	6.9	300
	13	4.0			22.3						39.3	35.3	7.7	300
	16	4.3			24.3						33.0	36.3	7.4	300
	17	6.0			27.0						30.3	33.7	6.9	300
	22	13.3			26.0						20.0	35.7	6.1	300
TOTALS	100				25.2						25.4	36.8	6.7	2400

STATION

25

STATION NAME

212

FEB 22 1962

三

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.		
		0	1	2	3	4	5	6	7	8	9			10	
JUL	1	24.5			24.5							21.3	27.7	5.4	310
	2	21.5			23.5							21.0	34.2	6.0	310
	7	25.3			23.9							20.6	35.2	6.1	310
	1	17.5			26.1							24.8	32.6	6.3	310
	12	28.5			32.6							34.6	28.7	7.0	310
	15	5.0			32.3							34.2	28.4	6.9	310
	17	10.3			30.6							29.4	29.7	6.5	310
	22	23.5			24.8							24.9	26.8	5.7	310
TOTALS		15.0			27.3							26.4	30.4	6.2	2490



667

三

STATION	STATION NAME
1	STATION 1
2	STATION 2
3	STATION 3
4	STATION 4
5	STATION 5
6	STATION 6
7	STATION 7
8	STATION 8
9	STATION 9
10	STATION 10
11	STATION 11
12	STATION 12
13	STATION 13
14	STATION 14
15	STATION 15
16	STATION 16
17	STATION 17
18	STATION 18
19	STATION 19
20	STATION 20
21	STATION 21
22	STATION 22
23	STATION 23
24	STATION 24
25	STATION 25
26	STATION 26
27	STATION 27
28	STATION 28
29	STATION 29
30	STATION 30
31	STATION 31
32	STATION 32
33	STATION 33
34	STATION 34
35	STATION 35
36	STATION 36
37	STATION 37
38	STATION 38
39	STATION 39
40	STATION 40
41	STATION 41
42	STATION 42
43	STATION 43
44	STATION 44
45	STATION 45
46	STATION 46
47	STATION 47
48	STATION 48
49	STATION 49
50	STATION 50
51	STATION 51
52	STATION 52
53	STATION 53
54	STATION 54
55	STATION 55
56	STATION 56
57	STATION 57
58	STATION 58
59	STATION 59
60	STATION 60
61	STATION 61
62	STATION 62
63	STATION 63
64	STATION 64
65	STATION 65
66	STATION 66
67	STATION 67
68	STATION 68
69	STATION 69
70	STATION 70
71	STATION 71
72	STATION 72
73	STATION 73
74	STATION 74
75	STATION 75
76	STATION 76
77	STATION 77
78	STATION 78
79	STATION 79
80	STATION 80
81	STATION 81
82	STATION 82
83	STATION 83
84	STATION 84
85	STATION 85
86	STATION 86
87	STATION 87
88	STATION 88
89	STATION 89
90	STATION 90
91	STATION 91
92	STATION 92
93	STATION 93
94	STATION 94
95	STATION 95
96	STATION 96
97	STATION 97
98	STATION 98
99	STATION 99
100	STATION 100

U.S. B. C.

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
1947	1	23.5			23.5						20.3	32.6	5.8	310
	2	27.8			22.6						18.4	38.4	6.2	310
	7	13.0			26.4						18.7	39.0	6.4	310
	10	14.8			25.8						25.8	33.9	6.5	310
	17	2.9			28.1						33.5	34.5	7.3	310
	18	3.8			33.5						28.4	34.5	7.0	310
	19	6.8			30.0						30.0	33.2	6.9	310
	22	20.0			25.2						21.3	33.5	6.0	310
TOTALS		116.3			27.1						24.6	35.0	6.5	2480

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3  
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FeBr<sub>3</sub>·O<sub>2</sub>

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
10	11	27.7			31.7						15.7	35.7	5.6	370
	14	28.7			27.7						14.7	36.0	5.5	370
	17	16.0			25.7						22.3	36.7	5.4	370
	19	17.3			24.3						24.0	34.3	6.3	370
	17	5.7			32.0						29.7	31.7	6.8	370
	18	5.7			31.7						26.0	36.0	6.9	360
	19	11.7			31.0						23.3	34.0	6.4	370
	22	24.3			21.7						21.0	33.0	5.8	360
TOTALS		17.3			25.0						22.1	34.7	6.2	2470

## SKY COVER

1 OCT 1967 0000Z, D

73-20

OCT

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
OCT	01	32.3			16.1						13.2	36.8	5.4	310
	04	33.3			17.1						16.5	32.6	5.3	310
	07	12.7			29.4						19.1	32.9	5.8	310
	10	15.5			32.9						18.4	32.9	5.9	310
	13	17.6			28.4						25.8	33.2	6.5	310
	16	14.5			27.1						25.2	32.9	6.4	310
	19	27.1			24.6						19.7	28.4	5.4	310
	22	32.3			22.3						15.2	30.3	5.1	310
TOTALS	22.4				24.4						19.0	32.5	5.7	2480

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PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

# SKY COVER

2

STATION NAME

PERIOD

15-17

DEC

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
DEC	1	25.5			12.7						11.0	41.9	5.9	310
	2	24.2			16.6						12.0	44.5	6.2	310
DEC	3	14.6			24.5						12.1	42.9	6.7	310
	4	13.3			22.3						13.4	47.1	7.0	310
DEC	5	11.1			22.3						24.5	47.1	7.5	310
	6	11.6			21.0						22.9	44.5	7.1	310
DEC	7	23.7			21.7						12.0	42.4	6.1	309
	8	23.0			14.4						13.6	43.0	6.1	309
TOTALS														
TOTALS		11.0			22.0						16.9	44.2	6.6	2478

# SKY COVER

1-703

ILLINOIS, P

73-32

ALL

STATION

STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
ALL	ALL	13.9			21.1						17.7	43.3	6.5 2489
		24.3			25.6						16.6	38.1	5.9 2256
		17.7			21.1						17.6	44.1	6.6 2499
		22.2			21.2						20.4	36.2	6.1 2400
		14.5			23.0						20.6	42.1	6.8 2489
		13.0			26.2						25.4	36.8	6.7 2470
		13.0			27.3						26.4	35.4	6.2 2480
		17.3			27.1						24.6	35.0	6.5 2480
		17.7			25.9						22.1	34.7	6.2 2400
		23.0			24.8						19.0	32.5	5.7 2450
		15.0			22.8						20.3	33.5	6.4 2400
		13.0			20.9						16.9	44.2	6.6 2478
TOTALS		13.1			23.3						20.6	38.0	6.4 29214

## PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature.  
This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma x$ ). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicated mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

6. Directional frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all years combined. The main body of the summary consists of dry-bulb temperatures grouped vertically in four degree intervals and horizontally in eight wind directions (plus calm).





## DAILY TEMPERATURES

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

2

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# DAILY TEMPERATURES

STATION	STATION NAME	YEARS
1	STATION 1	4-5-5-5

ACCUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

[illegible]

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION NAME: FORT CAROLINA, NORTH CAROLINA  
 YEARS: 1955-1957  
 MONTH: JULY

MAXIMUM TEMP			AVERAGE			EXTREME			MINIMUM TEMP								
			F			°C			°F			C			DATE		
1	57	13.3	77.7	25.4	4.0	5	1.7	1973	23.1	-2.7	7	-17.2	1977				
2	57	13.3	77.7	25.4	3.0	60	1.6	1979	24.1	-4.4	1	-17.2	1963				
3	57	13.3	77.7	25.4	3.0	57	17.0	1950	25.5	-7.6	1	-12.2	1979				
4	57	13.3	77.7	25.4	3.0	66	19.0	1957	24.9	-4.2	0	-17.3	1981				
5	57	13.3	77.7	25.4	2.0	62	19.7	1950	23.7	-4.7	7	-13.0	1960				
6	57	13.3	77.7	25.4	3.0	67	19.4	1957	24.3	-4.3	4	-13.6	1963				
7	57	13.3	77.7	25.4	3.0	65	19.0	1945	25.4	-3.7	7	-12.0	1960				
8	57	13.3	77.7	25.4	1.0	50	10.0	1978	22.2	-5.4	1	-17.2	1977				
9	57	13.3	77.7	25.4	1.0	60	19.6	1973	21.8	-6.5	-2	-13.9	1981				
10	57	13.3	77.7	25.4	1.0	61	19.1	1957	21.6	-5.8	-1	-13.3	1982				
11	57	13.3	77.7	25.4	1.0	67	19.9	1979	21.7	-5.0	-1	-13.3	1982				
12	57	13.3	77.7	25.4	1.0	50	13.3	1957	20.7	-5.3	-6	-21.1	1981				
13	57	13.3	77.7	25.4	1.0	60	19.7	1972	21.0	-6.1	-3	-13.4	1981				
14	57	13.3	77.7	25.4	3.0	60	19.7	1972	23.7	-4.6	6	-14.4	1954				
15	57	13.3	77.7	25.4	2.0	55	13.0	1962	23.5	-4.7	0	-17.3	1965				
16	57	13.3	77.7	25.4	2.0	6	19.6	1953	21.7	-5.7	1	-17.2	1977				
17	57	13.3	77.7	25.4	1.0	60	19.7	1973	19.5	-6.9	-6	-22.3	1952				
18	57	13.3	77.7	25.4	2.0	60	18.0	1973	19.7	-5.9	-5	-20.6	1952				
19	57	13.3	77.7	25.4	2.0	67	17.0	1951	21.2	-6.6	3	-16.1	1977				
20	57	13.3	77.7	25.4	3.0	60	19.7	1951	22.0	-6.1	7	-13.9	1945				
21	57	13.3	77.7	25.4	2.0	57	17.0	1959	27.1	-4.0	4	-15.6	1961				
22	57	13.3	77.7	25.4	4.0	64	17.9	1959	24.0	-4.4	7	-16.1	1977				
23	57	13.3	77.7	25.4	3.0	67	17.0	1967	23.2	-4.0	5	-15.0	1961				
24	57	13.3	77.7	25.4	3.0	6	19.0	1967	24.9	-4.3	7	-15.0	1945				
25	57	13.3	77.7	25.4	4.0	67	19.4	1957	25.1	-7.4	4	-13.6	1981				
26	57	13.3	77.7	25.4	5.0	72	22.0	1970	25.6	-3.5	1	-14.4	1961				
27	57	13.3	77.7	25.4	3.0	67	19.0	1974	24.4	-4.2	7	-12.3	1932				
28	57	13.3	77.7	25.4	2.0	6	19.0	1947	22.2	-5.4	7	-15.0	1946				
29	57	13.3	77.7	25.4	2.0	67	17.0	1975	22.4	-5.3	-3	-13.9	1977				
30	57	13.3	77.7	25.4	2.0	6	19.0	1947	22.7	-5.4	7	-15.0	1952				
31	57	13.3	77.7	25.4	1.0	50	19.0	1974	21.0	-6.1	-3	-16.4	1949				
Monthly	57	13.3	77.7	25.4	2.0	72	22.0	1950	22.0	-5.1	-1	-22.3	1952				

\*ALSO ON EARLIER YEARS

# DAILY AVERAGE/EXTREME TEMPERATURES

LOCAL WEATHER SERVICE DETACHMENT  
NOVA LEE NORTH CAROLINA

STATION NAME: NOVA LEE NORTH CAROLINA  
 DATE: 1977-12-15  
 YEARS: 1977

DAY	MEAN TEMP			AVERAGE			MAXIMUM TEMP			EXTREME			MINIMUM TEMP			DATE
	AVERAGE			AVERAGE			EXTREME			EXTREME			EXTREME			
	F	C		F	C		F	C		F	C		F	C		
1	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
2	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
3	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
4	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
5	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
6	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
7	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
8	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
9	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
10	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
11	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
12	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
13	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
14	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
15	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
16	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
17	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
18	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
19	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
20	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
21	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
22	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
23	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
24	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
25	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
26	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
27	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
28	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
29	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977
30																
31																
Monthly	5	-15.6		5	-15.6		5	-15.6		5	-15.6		5	-15.6		1977

\* ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

STATION NAME: WHEELER, NORTH CAROLINA  
PERIOD: 1972-1979  
YEARS: 1972-1979

DAY	AVERAGE			MAXIMUM TEMP			MINIMUM TEMP		
	F	C		F	C		F	C	DATE
1	51.0	10.6		71.0	21.7		27.0	-2.7	1972
2	52.0	11.1		72.0	22.2		27.7	-2.4	1972
3	53.0	12.2		69.0	20.6		26.0	-2.1	1972
4	54.0	12.2		70.0	21.1		25.0	-2.2	1974
5	55.0	12.8		75.0	23.9		23.0	-0.7	1976
6	56.0	13.3		68.0	20.0		26.7	-1.7	1959
7	57.0	13.9		70.0	21.1		26.5	-1.2	1945
8	58.0	14.4		65.0	18.3		28.0	-2.2	1951
9	59.0	15.0		64.0	17.8		25.2	-2.1	1977
10	60.0	15.6		7.0	1.1		25.5	-0.3	1953
11	61.0	16.1		63.0	17.2		19.9	-1.2	1977
12	62.0	16.7		55.0	12.8		27.4	-0.6	1977
13	63.0	17.2		67.0	19.4		11.2	-0.4	1946
14	64.0	17.8		70.0	21.1		23.3	0.7	1957
15	65.0	18.3		67.0	19.4		37.6	0.3	1943
16	66.0	18.9		20.0	2.8		31.7	-0.2	1943
17	67.0	19.4		22.0	27.6		30.9	-0.1	1943
18	68.0	20.0		67.0	19.4		19.7	-1.3	1962
19	69.0	20.6		74.0	23.3		31.5	-0.3	1945
20	70.0	21.1		51.0	11.7		23.3	0.7	1943
21	71.0	21.7		1.0	27.2		33.0	1.1	1943
22	72.0	22.2		75.0	24.4		33.6	1.5	1943
23	73.0	22.8		6.0	20.0		33.0	1.0	1976
24	74.0	23.3		50.0	10.0		34.3	1.3	1959
25	75.0	23.9		74.0	23.3		32.0	0.4	1959
26	76.0	24.4		7.0	21.1		13.4	0.6	1979
27	77.0	25.0		74.0	24.4		35.0	1.7	1943
28	78.0	25.6		61.0	16.7		35.1	1.7	1945
29	79.0	26.1		5.0	10.0		36.0	2.3	1945
30	80.0	26.7		51.0	11.7		38.3	2.9	1977
31	81.0	27.2		8.0	14.4		17.4	0.6	1979
Monthly	82.0	27.8		9.0	16.1		21.0	-0.1	1943

\*ALSO ON EARLIER YEARS

# NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION CALL LETTERS: 5. 0. 9. 194 - 1962 1965 - 1967 YEARS MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		EXTREME		AVERAGE		MINIMUM TEMP		DATE
	F	C	F	C	F	C	F	C	F	C	F	C	
1	40.0	4.4	57.6	14.3	74	23.3	39.7	4.3	39.7	4.3	22	-5.6	1965
2	40.0	4.4	57.6	14.3	81	27.2	39.7	4.3	39.7	4.3	21	-0.6	1954
3	40.0	4.4	57.6	14.3	74	23.3	39.7	4.3	39.7	4.3	25	-3.9	1954
4	40.0	4.4	57.6	14.3	74	23.3	39.7	4.3	39.7	4.3	22	-5.6	1954
5	40.0	4.4	57.6	14.3	6	-21.1	39.7	4.3	39.7	4.3	25	-3.9	1975
6	40.0	4.4	57.6	14.3	8	-22.2	39.7	4.3	39.7	4.3	22	-5.6	1982
7	40.0	4.4	57.6	14.3	74	23.3	39.7	4.3	39.7	4.3	13	-7.8	1982
8	40.0	4.4	57.6	14.3	83	28.3	39.7	4.3	39.7	4.3	23	-5.6	1982
9	40.0	4.4	57.6	14.3	82	27.8	39.7	4.3	39.7	4.3	24	-4.4	1977
10	40.0	4.4	57.6	14.3	77	25.0	39.7	4.3	39.7	4.3	25	-3.9	195
11	40.0	4.4	57.6	14.3	32	0.6	39.7	4.3	39.7	4.3	27	-1.7	197
12	40.0	4.4	57.6	14.3	94	34.4	39.7	4.3	39.7	4.3	27	-2.3	1976
13	40.0	4.4	57.6	14.3	80	26.7	39.7	4.3	39.7	4.3	25	-3.3	1950
14	40.0	4.4	57.6	14.3	86	30.0	39.7	4.3	39.7	4.3	22	-5.6	1950
15	40.0	4.4	57.6	14.3	84	28.9	39.7	4.3	39.7	4.3	29	-1.7	1950
16	40.0	4.4	57.6	14.3	8	-22.2	39.7	4.3	39.7	4.3	23	-1.7	1981
17	40.0	4.4	57.6	14.3	80	26.7	39.7	4.3	39.7	4.3	27	-2.3	1980
18	40.0	4.4	57.6	14.3	93	33.9	39.7	4.3	39.7	4.3	23	-6	1948
19	40.0	4.4	57.6	14.3	93	33.9	39.7	4.3	39.7	4.3	34	1.1	1979*
20	40.0	4.4	57.6	14.3	83	31.1	39.7	4.3	39.7	4.3	23	-0	1961*
21	40.0	4.4	57.6	14.3	50	10.0	39.7	4.3	39.7	4.3	22	-1.7	1956
22	40.0	4.4	57.6	14.3	83	28.3	39.7	4.3	39.7	4.3	20	-2.2	1975
23	40.0	4.4	57.6	14.3	20	-6.7	39.7	4.3	39.7	4.3	32	-0	1976
24	40.0	4.4	57.6	14.3	80	26.7	39.7	4.3	39.7	4.3	7	1.7	1956
25	40.0	4.4	57.6	14.3	80	26.7	39.7	4.3	39.7	4.3	21	-0.6	1951
26	40.0	4.4	57.6	14.3	2	-17.8	39.7	4.3	39.7	4.3	24	1.1	1972
27	40.0	4.4	57.6	14.3	20	-6.7	39.7	4.3	39.7	4.3	23	-0.6	1967
28	40.0	4.4	57.6	14.3	80	26.7	39.7	4.3	39.7	4.3	21	-0.6	1946
29	40.0	4.4	57.6	14.3	2	-17.8	39.7	4.3	39.7	4.3	25	1.7	1948
30	40.0	4.4	57.6	14.3	50	10.0	39.7	4.3	39.7	4.3	27	2.6	1977*
31	40.0	4.4	57.6	14.3	14.1	5.5	39.7	4.3	39.7	4.3	1	-7.8	1982
Monthly	40.0	4.4	57.6	14.3	53	12.2	39.7	4.3	39.7	4.3	1	-7.8	1982

\*ALSO ON EARLIER YEARS

# DAILY AVERAGE/EXTREME TEMPERATURES

2

YEAR	YEARLY TEMP AVERAGE		DAILY TEMP AVERAGE		EXTREME		DATE	DATE	DATE	DATE	DATE	DATE
	F	C	F	C	F	C						
1	51.0	10.6	51.0	10.6	51.0	10.6	1971	1971	1971	1971	1971	1971
2	51.0	10.6	51.0	10.6	51.0	10.6	1972	1972	1972	1972	1972	1972
3	51.0	10.6	51.0	10.6	51.0	10.6	1973	1973	1973	1973	1973	1973
4	51.0	10.6	51.0	10.6	51.0	10.6	1974	1974	1974	1974	1974	1974
5	51.0	10.6	51.0	10.6	51.0	10.6	1975	1975	1975	1975	1975	1975
6	51.0	10.6	51.0	10.6	51.0	10.6	1976	1976	1976	1976	1976	1976
7	51.0	10.6	51.0	10.6	51.0	10.6	1977	1977	1977	1977	1977	1977
8	51.0	10.6	51.0	10.6	51.0	10.6	1978	1978	1978	1978	1978	1978
9	51.0	10.6	51.0	10.6	51.0	10.6	1979	1979	1979	1979	1979	1979
10	51.0	10.6	51.0	10.6	51.0	10.6	1980	1980	1980	1980	1980	1980
11	51.0	10.6	51.0	10.6	51.0	10.6	1981	1981	1981	1981	1981	1981
12	51.0	10.6	51.0	10.6	51.0	10.6	1982	1982	1982	1982	1982	1982
13	51.0	10.6	51.0	10.6	51.0	10.6	1983	1983	1983	1983	1983	1983
14	51.0	10.6	51.0	10.6	51.0	10.6	1984	1984	1984	1984	1984	1984
15	51.0	10.6	51.0	10.6	51.0	10.6	1985	1985	1985	1985	1985	1985
16	51.0	10.6	51.0	10.6	51.0	10.6	1986	1986	1986	1986	1986	1986
17	51.0	10.6	51.0	10.6	51.0	10.6	1987	1987	1987	1987	1987	1987
18	51.0	10.6	51.0	10.6	51.0	10.6	1988	1988	1988	1988	1988	1988
19	51.0	10.6	51.0	10.6	51.0	10.6	1989	1989	1989	1989	1989	1989
20	51.0	10.6	51.0	10.6	51.0	10.6	1990	1990	1990	1990	1990	1990
21	51.0	10.6	51.0	10.6	51.0	10.6	1991	1991	1991	1991	1991	1991
22	51.0	10.6	51.0	10.6	51.0	10.6	1992	1992	1992	1992	1992	1992
23	51.0	10.6	51.0	10.6	51.0	10.6	1993	1993	1993	1993	1993	1993
24	51.0	10.6	51.0	10.6	51.0	10.6	1994	1994	1994	1994	1994	1994
25	51.0	10.6	51.0	10.6	51.0	10.6	1995	1995	1995	1995	1995	1995
26	51.0	10.6	51.0	10.6	51.0	10.6	1996	1996	1996	1996	1996	1996
27	51.0	10.6	51.0	10.6	51.0	10.6	1997	1997	1997	1997	1997	1997
28	51.0	10.6	51.0	10.6	51.0	10.6	1998	1998	1998	1998	1998	1998
29	51.0	10.6	51.0	10.6	51.0	10.6	1999	1999	1999	1999	1999	1999
30	51.0	10.6	51.0	10.6	51.0	10.6	2000	2000	2000	2000	2000	2000

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



# DAILY AVERAGE/EXTREME TEMPERATURES

1955-1956 1955-56 0 1

STATION	DATE	AVERAGE			MAXIMUM TEMP			MINIMUM TEMP		
		F	C	DATE	F	C	DATE	F	C	DATE
1	1955	3.7	24.5	1955	4	12.5	1955	14.5	14.5	1955
2	1955	6	20.3	1955	4	11.1	1955	14.5	14.5	1955
3	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
4	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
5	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
6	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
7	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
8	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
9	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
10	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
11	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
12	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
13	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
14	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
15	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
16	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
17	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
18	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
19	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
20	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
21	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
22	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
23	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
24	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
25	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
26	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
27	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
28	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
29	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
30	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
31	1955	20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955
Monthly		20.6	24.5	1955	3	11.1	1955	14.5	14.5	1955

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

DATE: 4 10 5 1955  
STATION: 1408

TIME	WIND	AVERAGE			MAXIMUM TEMP			MINIMUM TEMP			DATE
		F	C	F	F	C	F	F	C	F	
1	•	33.8	4.7	26.1	33.7	1.4	1.4	13.7	1.4	13.7	13.7
2	•	33.8	4.7	26.4	33.7	1.4	1.4	13.7	1.4	13.7	13.7
3	•	33.8	4.4	26.1	33.7	1.4	1.4	13.7	1.4	13.7	13.7
4	•	33.8	4.7	26.1	33.7	1.4	1.4	13.7	1.4	13.7	13.7
5	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
6	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
7	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
8	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
9	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
10	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
11	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
12	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
13	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
14	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
15	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
16	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
17	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
18	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
19	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
20	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
21	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
22	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
23	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
24	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
25	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
26	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
27	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
28	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
29	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
30	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
31	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7
Monthly	•	33.8	4.7	27.2	33.7	1.4	1.4	13.7	1.4	13.7	13.7

\*ALSO ON EARLIER YEARS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	F	C	F	C	F	C			F	C	F	C		
1	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
2	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
3	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
4	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
5	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
6	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
7	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
8	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
9	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
10	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
11	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
12	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
13	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
14	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
15	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
16	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
17	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
18	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
19	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
20	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
21	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
22	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
23	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
24	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
25	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
26	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
27	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
28	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
29	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
30	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
31	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955
Monthly	53.0	11.7	53.0	11.7	53.0	11.7	1955	1955	53.0	11.7	53.0	11.7	1955	1955

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION: 14-17-2 955-100 MONTH: 1957

DAY	MEAN TEMP			AVERAGE			MAXIMUM TEMP			EXTREME			MINIMUM TEMP			DATE	F	C	DATE	F	C	DATE
	F	C	F	F	C	F	F	C	F	F	C	F	F	C	F							
1	52.0	11.1	1.9	27.7	8.1	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
2	52.2	11.3	1.9	27.7	8.1	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
3	51.0	10.6	1.9	26.0	7.8	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
4	51.4	10.8	1.9	26.0	7.8	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
5	51.0	10.6	1.9	27.0	8.0	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
6	51.4	10.8	1.9	26.0	7.8	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
7	51.0	10.6	1.9	25.0	7.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
8	51.0	10.6	1.9	25.0	7.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
9	51.0	10.6	1.9	24.0	7.0	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
10	51.0	10.6	1.9	25.0	7.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
11	51.0	10.6	1.9	25.0	7.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
12	51.0	10.6	1.9	25.0	7.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
13	51.0	10.6	1.9	25.0	7.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
14	51.0	10.6	1.9	25.0	7.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
15	51.0	10.6	1.9	24.0	7.0	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
16	51.0	10.6	1.9	24.0	7.0	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
17	51.0	10.6	1.9	23.0	6.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
18	51.0	10.6	1.9	24.0	7.0	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
19	51.0	10.6	1.9	23.0	6.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
20	51.0	10.6	1.9	23.0	6.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
21	51.0	10.6	1.9	22.0	6.0	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
22	51.0	10.6	1.9	22.0	6.0	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
23	51.0	10.6	1.9	21.0	5.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
24	51.0	10.6	1.9	21.0	5.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
25	51.0	10.6	1.9	21.0	5.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
26	51.0	10.6	1.9	22.0	6.0	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
27	51.0	10.6	1.9	21.0	5.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
28	51.0	10.6	1.9	21.0	5.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
29	51.0	10.6	1.9	21.0	5.5	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
30	51.0	10.6	1.9	20.0	5.0	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
31	51.0	10.6	1.9	20.0	5.0	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957
Monthly	51.0	10.6	1.9	20.0	5.0	30.0	87	31.1	1957	17.4	6.4	1957	17.4	6.4	1957	1957	17.4	6.4	1957	17.4	6.4	1957

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

# DAILY AVERAGE/EXTREME TEMPERATURES

2

STATION	DAILY AVERAGE			DAILY EXTREME			DAILY AVERAGE			DAILY EXTREME			DATE
	F	C	F	F	C	F	F	C	F	C	F	C	
1	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
2	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
3	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
4	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
5	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
6	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
7	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
8	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
9	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
10	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
11	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
12	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
13	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
14	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
15	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
16	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
17	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
18	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
19	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
20	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
21	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
22	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
23	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
24	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
25	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
26	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
27	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
28	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
29	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
30	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
31	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977
Monthly	13.7	5.1	11.1	13.7	5.1	11.1	13.7	5.1	11.1	5.1	13.7	5.1	1977

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

STATION NAME: ASHEVILLE, NORTH CAROLINA  
 DATE: 10-1-1972  
 YEARS: 1955-1972

DAY	MEAN TEMP AVERAGE			MAXIMUM TEMP EXTREME			AVERAGE			MINIMUM TEMP EXTREME			DATE
	F	C		F	C		F	C		F	C		
1	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
2	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1974
3	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1961
4	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1951
5	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1951
6	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1967
7	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
8	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1967
9	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1974
10	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
11	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
12	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1957
13	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
14	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1977
15	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1967
16	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1967
17	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
18	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
19	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
20	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
21	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
22	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
23	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
24	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
25	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
26	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
27	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
28	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
29	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
30	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
31	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954
Monthly	4.4	11.4		11.4	11.4		4.4	11.4		4.4	11.4		1954

\*ALSO ON EARLIER YEARS

## DAILY AVERAGE/EXTREME TEMPERATURES

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The diagram illustrates a 1D lattice chain. A horizontal line represents the chain, with dots indicating lattice sites. The sites are labeled with '1' and '2' at the ends, and 'i' and 'j' in the middle. Arrows indicate interactions between adjacent sites. A vertical arrow points from the chain to a box labeled 'H', which is connected to a box labeled 'G'. The box 'G' is also connected to a box labeled 'H'.

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DAY	MINIMUM TEMP			AVERAGE			MAXIMUM TEMP			WINDSPEED		
	F	C	DATE	F	C	DATE	F	C	DATE	F	C	DATE
1	•	•	1977	5.7	3.3	1977	11.1	5.1	1977	1	-11.1	1977
2	•	•	1977	6.2	3.4	1977	14.4	5.2	1977	•	-14.4	1977
3	•	•	1977	6.2	3.4	1977	17.7	5.2	1977	•	-17.7	1977
4	•	•	1977	7.4	3.4	1977	19.2	5.2	1977	•	-19.2	1977
5	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
6	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
7	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
8	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
9	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
10	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
11	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
12	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
13	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
14	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
15	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
16	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
17	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
18	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
19	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
20	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
21	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
22	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
23	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
24	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
25	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
26	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
27	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
28	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
29	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
30	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
31	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977
Monthly	•	•	1977	7.4	3.4	1977	21.7	5.2	1977	•	-21.7	1977

•ALSO ON EARLIER YEARS

**DIRNA VOCEANMET-SMOS**

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

FROM DAILY OBSERVATIONS

MONTH		YEARS												ALL MONTHS
YEAR		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	4			72	73	63	61	5	63	5	4			
2	5					66	67		63	7				
3	6			61	76	63		55	69	63		72		
4	7			72	81	61	62	61	67	63	63	63	65	
5	8	63	64	62	83	62	66	65	67	69		69		
6	9	61	62	67	81	65	66	63	6	68	74	71	62	
7	10	65	63	63	82	69	64	69	100	102	75	72	66	
8	11	64	63	72	82	69	61	69		69	66	67	58	
9	12	61	61	64	85	61	63	65	63	65	62	63	57	
10	13	61	61	76	91	77	69	102	65	61	76	70	62	
11	14	60	61	64	87	65	63	64	61	62	63	67	57	
12	15	64	62	74	87	62	67	64	62	64	65	72	57	
13	16	65	66	74	89	62	6	61	60	67	61	67	60	
14	17	65	67		93	64	63	66	6	62		67	56	
15	18			57	79	69	71	70	61	69	75	63	64	
16	19			56	77	63	65	102	61		76	62	62	
17	20	63	67	69	82	70	62	69	66	69	63	69	61	
18	21	67	40	73	87	67	63	63	62	68	63		61	
19	22	63	43	67	64	62	63	62	69	69	70	63	61	
20	23	48	57	69	82	69	63	62	61	61	61	64	63	
21	24	40	61	64	74	66	61	60	61	67	67	67	64	
22	25	52	63	73	83	63	60	62	62	67	7	6	64	
23	26	53	67	72	89	67	62	62	64	67	79	69	67	
24	27	67	67	76	91	67	62	62	64	64	71		67	
25	28	67	67	83	71	5	62		6	66	62	61	65	
26	29	62	61	75	63	63	62	6	6	69	62	61	65	
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## EXTREME VALUES

# FROM DAILY OBSERVATIONS

STATION	STATION NAME	YEARS
4	4	4

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible]

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

STATION NUMBER  
PROBABILITY PERCENTAGES

STATION NAME  
STATION NUMBER  
YEARS

NO. OF YEARS FOR WHICH DATA  
WAS OBTAINED IN LEAST THREE FULL MONTHS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1													
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TOTAL OBS													

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

STATION TEMPERATURE  
FROM DAILY OBSERVATIONS

STATION NAME: ASHEVILLE, NC YEARS: 4-1959, 1965-

10 DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1													
2													
3													
4													
5	12	10	12	13	14	15	16	17	18	19	20	21	
6	13	11	13	14	15	16	17	18	19	20	21	22	
7	14	12	14	15	16	17	18	19	20	21	22	23	
8	15	13	15	16	17	18	19	20	21	22	23	24	
9	16	14	16	17	18	19	20	21	22	23	24	25	
10	17	15	17	18	19	20	21	22	23	24	25	26	
11	18	16	18	19	20	21	22	23	24	25	26	27	
12	19	17	19	20	21	22	23	24	25	26	27	28	
13	20	18	20	21	22	23	24	25	26	27	28	29	
14	21	19	21	22	23	24	25	26	27	28	29	30	
15	22	20	22	23	24	25	26	27	28	29	30	31	
16	23	21	23	24	25	26	27	28	29	30	31		
17	24	22	24	25	26	27	28	29	30	31			
18	25	23	25	26	27	28	29	30	31				
19	26	24	26	27	28	29	30	31					
20	27	25	27	28	29	30	31						
21	28	26	28	29	30	31							
22	29	27	29	30	31								
23	30	28	30	31									
24	31	29											
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26		31											
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31													
MEAN													
S D													
TOTAL OBS													

## EXTREME VALUES

FROM DAILY OBSERVATIONS.

YEARS

1. The first group of people who are not allowed to enter the country are those who are considered to be a threat to national security. This includes anyone who is involved in espionage, terrorism, or other activities that could harm the country's interests.

SMOS

## EXTREME VALUES

FROM DAILY OBSERVATIONS

YEARS

100

THE  
FEDERAL  
BUREAU OF INVESTIGATION  
UNITED STATES DEPARTMENT OF JUSTICE  
WASHINGTON, D.C.

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1		1	2			3						1	MIN MAX AVG
2	7			8	81		9		10		11	12	MIN MAX AVG
3	9	10	11	12	13					17	18		MIN MAX AVG
4	14	15	16			17							MIN MAX AVG
5	17	18	19		21		22					23	MIN MAX AVG
6	20	21	22		23								MIN MAX AVG
7	24	25	26										MIN MAX AVG
8	27	28	29										MIN MAX AVG
9	30	31											MIN MAX AVG
10													MIN MAX AVG
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53													MIN MAX AVG
MEAN													
S D													
TOTAL OBS.													

SMOS

## EXTREME VALUES

FROM DAILY OBSERVATIONS.

STATION	STATION NAME	YEARS
10-60		4-60, 6-60

THE UNIVERSITY OF CHICAGO

[illegible]

SMOS

# PSYCHROMETRIC SUMMARY

STATION NAME:   
 MONTH:   
 YEARS:   
 HOURS: 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
67																		1	1			
68																		3	3			
69																		7	7			
70																		4	4			
71																		9	9			
72																		13	13			
73																		18	18			
74																		23	23			
75																		44	44			
76																		46	46			
77																		52	52			
78																		98	98			
79																		114	114			
80																		138	138			
81																		157	157			
82																		167	167			
83																		155	155			
84																		173	173			
85																		163	163			
86																		145	145			
87																		144	144			
88																		138	138			
89																		134	134			
90																		117	117			
91																		173	173			
92																		57	57			
93																		55	55			
94																		47	47			
95																		23	23			
96																		16	16			
97																		17	17			
98																		6	6			
99																						
100																						

NAWFAASERVCOM

# PSYCHROMETRIC SUMMARY

DATE MONTH YEAR

STATION NAME

YEARS

STATION

STATION NAME

WET BULB TEMPERATURE DEPRESSION (F)

Temp F

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TOTAL

D.B. W.B. Dry Bulb Wet Bulb Dew Point

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NAWWEASERVCOM



## PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH	DAY	HOURS	LIST

[illegible]

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

STATION		STATION NAME		YEARS		MONTH		HOURS																														
Temp		WET BULB TEMPERATURE DEPRESSION (F)										TOTAL		TOTAL		D.B. W.B.		Dry Bulb		Wet Bulb		Dew Point																
F		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B.	W.B.	Dry Bulb	Wet Bulb	Dew Point
/	/	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. <td>W.B. <td>Dry Bulb <td>Wet Bulb <td>Dew Point </td></td></td></td>	W.B. <td>Dry Bulb <td>Wet Bulb <td>Dew Point </td></td></td>	Dry Bulb <td>Wet Bulb <td>Dew Point </td></td>	Wet Bulb <td>Dew Point </td>	Dew Point
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/	/	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. <td>W.B. <td>Dry Bulb <td>Wet Bulb <td>Dew Point </td></td></td></td>	W.B. <td>Dry Bulb <td>Wet Bulb <td>Dew Point </td></td></td>	Dry Bulb <td>Wet Bulb <td>Dew Point </td></td>	Wet Bulb <td>Dew Point </td>	Dew Point
/	/	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. <td>W.B. <td>Dry Bulb <td>Wet Bulb <td>Dew Point </td></td></td></td>	W.B. <td>Dry Bulb <td>Wet Bulb <td>Dew Point </td></td></td>	Dry Bulb <td>Wet Bulb <td>Dew Point </td></td>	Wet Bulb <td>Dew Point </td>	Dew Point
/	/	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21															

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## PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	DATE	MONTH	HOURS	TEST
			DATE			

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# PSYCHROMETRIC SUMMARY

STATION NAME: \_\_\_\_\_ YEAR: \_\_\_\_\_ MONTH: \_\_\_\_\_

PAGE: 1 HOURS: 15

T <sub>mp</sub> F	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL			TOTAL		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
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Element (X)	$\sum X^2$	$\sum X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.						$\leq 0^\circ F$	$\geq 32^\circ F$	$\geq 67^\circ F$	$\geq 73^\circ F$	$\geq 80^\circ F$	$\geq 93^\circ F$	
Dry Bulb												
Wet Bulb												
Dew Point												



## PSYCHROMETRIC SUMMARY

DAY MONTH YEAR  
HOURS 15

FLARS

D:
STATION NAME

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL														
	0	1-2	3-4	5-6	7-8	9-10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B.	W.B.	Dry Bulb	Wet Bulb	Total
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# PSYCHROMETRIC SUMMARY

STATION NAME: 71 MONTH: JUN  
 YEARS: 1965 PAGE: 1  
 HOURS (LST): 1

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)												TOTAL		TOTAL						
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
77																		2	2		
76																		4	4		
75																		12	13		
74																		22	25		
73																		42	45		
72																		74	74		
71																		95	95	1	1
70																		121	131	2	1
69																		163	163	13	
68																		165	165	33	5
67																		181	181	54	14
66																		201	201	142	55
65																		222	232	246	91
64																		185	185	265	203
63																		190	190	279	235
62																		175	175	219	230
61																		145	145	243	223
60																		147	147	247	189
59																		36	86	202	204
58																		57	57	161	161
57																		46	46	112	175
56																		25	25	95	166
55																		10	10	45	144
54																		8	8	13	117
53																		2	2	11	76
52																		1	1	6	43
51																		1	1	4	24
50																					11
49																					1
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47																					1
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# PSYCHROMETRIC SUMMARY

STATION NAME: GULF BAY, P. STATION NUMBER: 77-27 MONTH: JUL YEAR: 1967 PAGE: 1 HOURS (LST):

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)												TOTAL								
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
77																		1	1		
76																		4	4		
75																		5	5		
74																		10	10		
73																		23	23		
72																		40	40		
71																		64	64		
70																		117	117		
69																		125	125		
68																		166	166		
67																		191	191		
66																		219	219		
65																		224	224		
64																		262	262		
63																		257	257		
62																		219	219		
61																		159	159		
60																		140	140		
59																		82	82		
58																		66	66		
57																		44	44		
56																		30	30		
55																		16	16		
54																		7	7		
53																		1	1		
52																					
51																					
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3																					
2																					
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0																					
Mean																					
Std. Dev.																					
Total																					

## PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH	DAY	HOURS	WET BULB TEMPERATURE DEPRESSION (F.)																															TOTAL	Wet Bulb	Dry Bulb	Total	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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## PSYCHROMETRIC SUMMARY

STATION NAME \_\_\_\_\_ STATION \_\_\_\_\_ YEARS \_\_\_\_\_  
DATE \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS \_\_\_\_\_

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## PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH	HOURS	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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# PSYCHROMETRIC SUMMARY

STATION NAME:   
 YEARS:   
 MONTH:   
 PAGE 1   
 HOURS 11:57

Temp. F	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		Wet Bulb	Dew Point
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.		
37																																	1	1	
36																																	4	4	
35																																	6	6	
34																																	19	19	
33																																	51	51	
32																																	90	90	
31																																	166	166	
30																																	278	278	
29																																	374	374	
28																																	505	505	
27																																	601	601	
26																																	744	744	
25																																	868	868	
24																																	1025	1025	
23																																	1125	1125	
22																																	1171	1171	
21																																	1255	1255	
20																																	1279	1279	
19																																	1202	1202	
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17																																	1091	1091	
16																																	974	974	
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8																																	930	930	
7																																	976	976	
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2																																	917	917	
1																																	840	840	
0																																	1037	1037	
																																	996	996	
																																	973	973	
																																	827	827	
																																	895	895	
																																	840	840	

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# PSYCHROMETRIC SUMMARY

STATION NAME: STATION NAME DATE: 7-1-68 YEAR: 1968 MONTH: JUL HOURS: 11 DAY: 11

Temp F	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL																	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point	
74	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	76	786	1139	936	
75	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	77	629	957	939	
76	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	78	563	758	917	
77	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	79	483	643	924	
78	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	80	423	600	921	
79	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	81	374	375	499	733
80	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	82	342	342	427	722
81	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	83	276	276	381	557
82	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	84	217	218	311	542
83	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	85	145	145	227	523
84	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	86	117	118	147	483
85	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	87	85	85	103	435
86	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	88	53	53	71	331
87	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	89	32	32	53	311
88	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	90	19	19	33	205
89	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	91	13	13	11	147
90	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	92	29	29	21	114
91	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	93	13	13	11	88
92	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	94	5	5	4	40
93	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	95	5	5	8	37
94	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	96	1	1	1	41
95	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	97	1	1	1	17
96	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	98	1	1	1	16
97	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	99	1	1	1	9
98	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	100	1	1	1	1
99	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	101	1	1	1	1
100	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	102	1	1	1	1
101	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	103	1	1	1	1
102	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	104	1	1	1	1
103	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	105	1	1	1	1
104	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	106	1	1	1	1
105	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	107	1	1	1	1
106	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	108	1	1	1	1
107	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	109	1	1	1	1
108	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	110	1	1	1	1
109	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	111	1	1	1	1
110	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	112	1	1	1	1
111	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	113	1	1	1	1
112	0																																				

# MEANS AND STANDARD DEVIATIONS

CONV-GUL TEMPERATURES DEC F FROM HOURLY OBSERVATIONS

1477 MILLER GROVE, PA

77-78

STATION NAME

YEARS

CHAR. DATE	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
MEAN	26.2	28.2	37.9	46.2	54.0	64.0	69.9	67.9	60.8	49.1	42.3	32.8	48.6
S.D.	11.51	11.341	9.241	8.918	7.440	6.361	5.249	5.537	7.187	8.496	9.728	10.698	16.897
TOTAL OBS	319	282	310	300	310	300	310	310	300	310	300	310	3651
MEAN	25.7	26.9	36.1	44.8	54.1	62.0	66.8	66.4	59.3	47.7	41.0	32.0	47.0
S.D.	11.74	11.652	9.355	8.950	7.684	6.720	5.611	5.934	7.572	8.949	9.687	11.017	16.817
TOTAL OBS	319	282	310	300	310	300	310	310	300	310	300	310	3651
MEAN	25.0	26.0	35.5	46.0	57.1	65.3	69.8	69.0	59.8	47.3	40.4	31.4	47.8
S.D.	11.95	11.801	9.425	8.909	7.250	5.926	4.939	5.579	7.704	9.068	9.936	10.935	17.875
TOTAL OBS	311	282	310	300	310	300	310	310	300	310	300	310	3653
MEAN	25.9	31.1	42.1	53.2	64.3	72.2	77.1	75.8	62.0	55.8	46.8	35.2	54.3
S.D.	11.14	11.334	9.954	10.327	8.248	6.842	5.419	5.616	7.112	8.073	9.528	10.083	18.893
TOTAL OBS	311	282	310	300	310	300	310	310	300	310	300	310	3653
MEAN	32.7	35.6	46.7	57.9	68.7	76.4	81.5	80.1	72.7	60.6	51.4	39.3	58.7
S.D.	11.13	11.586	10.648	11.243	9.163	7.507	6.125	6.164	7.723	8.778	10.502	10.236	19.220
TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	310	3652
MEAN	33.7	37.0	48.0	59.1	69.4	77.2	82.1	80.3	73.0	60.6	51.0	39.2	59.3
S.D.	11.12	11.758	10.614	11.417	9.435	7.449	6.538	6.305	7.884	8.606	10.461	10.131	19.169
TOTAL OBS	309	282	310	300	310	300	310	310	300	310	300	310	3651
MEAN	29.9	33.1	43.9	54.7	65.0	73.0	77.6	75.4	67.2	54.6	46.3	35.8	54.8
S.D.	11.17	11.261	9.530	10.276	8.424	6.389	5.618	5.422	7.040	7.860	9.715	10.066	18.474
TOTAL OBS	310	282	310	300	310	300	310	310	300	310	300	309	3651
MEAN	28.1	30.3	40.5	49.9	59.5	66.9	71.9	71.3	62.9	51.0	43.8	33.9	50.9
S.D.	11.34	11.238	9.078	9.370	7.518	6.470	4.952	5.325	6.908	8.158	9.629	10.288	17.233
TOTAL OBS	317	282	310	300	310	300	310	310	300	310	300	309	3651
MEAN	28.0	31.0	41.3	51.5	61.8	69.6	74.5	73.0	65.5	53.4	45.4	35.0	52.7
S.D.	11.73	12.090	10.677	11.205	9.856	8.640	7.832	7.775	9.044	9.800	10.657	10.813	19.655
TOTAL OBS	2472	2256	2483	2400	2493	2400	2490	2483	2400	2490	2400	2470	29213

## MEANS AND STANDARD DEVIATIONS

STATION: 12005, PA 73-82 YEAR: 1965

STATION NAME: 12005, PA

YEAR: 73-82

STATION NAME

YEAR

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	24.0	25.7	34.3	42.7	50.1	60.2	64.8	64.9	58.1	46.4	39.2	37.4	45.3
S.D.	11.179	10.933	9.103	8.916	7.862	6.446	5.504	5.812	7.355	8.762	9.873	10.592	16.632
TOTALS	279	281	312	320	310	300	310	310	300	310	300	310	3650
MEAN	23.1	24.6	33.1	40.7	51.1	59.2	63.9	64.0	57.1	45.5	39.5	29.7	44.4
S.D.	11.241	11.336	9.364	9.015	8.164	6.784	5.853	6.164	7.877	9.185	10.303	10.915	16.762
TOTALS	309	291	310	320	310	300	310	310	300	310	300	310	3650
MEAN	23.2	23.9	32.8	41.7	53.2	61.3	65.6	65.1	57.6	45.2	39.0	29.2	44.9
S.D.	11.631	11.406	9.424	8.971	7.835	6.100	5.287	5.899	7.846	9.325	10.084	10.879	17.440
TOTALS	310	292	310	320	310	300	310	310	300	310	300	310	3652
MEAN	26.7	27.9	37.3	45.7	56.9	64.2	68.2	68.3	61.6	50.4	42.3	32.5	42.5
S.D.	11.751	10.742	9.527	9.075	7.940	6.122	4.999	5.399	6.935	8.431	9.616	9.988	17.079
TOTALS	311	291	310	320	310	300	310	310	300	310	300	310	3652
MEAN	29.0	31.0	40.1	48.1	58.7	65.7	69.4	69.5	63.3	52.7	44.7	34.7	50.7
S.D.	11.326	10.239	9.409	9.016	7.624	6.163	5.116	5.393	6.767	8.405	9.557	9.599	16.453
TOTALS	310	291	310	320	310	300	310	310	300	310	300	310	3651
MEAN	29.5	31.9	40.9	48.6	58.9	65.8	69.4	69.4	63.2	52.5	44.3	34.6	50.9
S.D.	12.158	10.065	9.979	8.860	7.511	5.904	4.911	5.046	6.629	8.145	9.621	9.540	16.128
TOTALS	310	281	310	320	310	300	310	310	300	310	300	310	3651
MEAN	26.0	29.3	38.4	46.3	56.9	64.0	68.1	67.8	61.1	49.5	41.8	32.4	48.6
S.D.	11.743	10.450	9.921	9.948	7.376	5.712	4.821	5.032	6.686	8.094	9.591	9.819	16.534
TOTALS	310	291	310	320	310	300	310	310	300	310	300	309	3650
MEAN	25.4	27.4	36.3	43.8	54.4	61.4	66.1	65.9	59.3	47.6	40.2	31.1	46.7
S.D.	11.953	10.823	8.844	8.837	7.641	6.531	5.116	5.448	6.915	8.380	9.681	10.159	16.489
TOTALS	310	291	310	320	310	300	310	310	300	310	300	309	3652
MEAN	26.1	27.7	36.6	44.6	55.3	62.7	66.0	66.9	60.2	48.7	41.1	31.6	47.5
S.D.	11.109	11.080	9.627	9.373	8.227	6.656	5.569	5.884	7.406	9.039	10.010	10.369	16.868
TOTALS	2479	2249	2420	2400	2450	2400	2480	2420	2400	2460	2400	2476	29266



# MEANS AND STANDARD DEVIATIONS

SEVENTY-TWO MONTHLY TEMPERATURES DES F FROM HOURLY OBSERVATIONS

1973 WILLOW GROVE, PA

73-2

STATION NAME

YEARS

PERIOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	17.1	19.1	27.5	35.4	43.5	57.6	62.4	63.2	56.2	43.4	35.0	25.1	41.1
S.D.	13.938	13.761	12.414	12.222	11.227	7.618	6.672	6.674	8.292	10.352	11.926	13.066	19.204
TOTAL OBS	309	281	312	300	310	300	310	310	300	310	300	310	3650
MEAN	17.5	18.4	27.2	35.0	42.1	57.2	62.1	62.7	55.4	42.9	34.5	24.5	40.6
S.D.	15.878	13.989	12.461	11.891	10.153	7.595	6.716	6.653	8.719	10.586	11.822	13.215	19.281
TOTAL OBS	309	281	310	300	310	300	310	310	300	310	300	310	3650
MEAN	17.3	18.2	27.4	35.5	42.5	58.7	63.2	63.4	56.0	42.8	34.2	24.0	41.0
S.D.	14.139	13.352	12.333	11.807	10.213	7.257	6.390	6.715	8.629	10.731	11.889	13.217	19.681
TOTAL OBS	310	282	312	300	310	300	310	310	300	310	300	310	3652
MEAN	16.5	20.3	29.5	36.6	50.6	59.1	63.1	64.2	57.2	44.9	36.3	25.9	42.4
S.D.	13.437	13.577	12.992	12.496	11.045	7.882	7.006	6.916	8.721	11.042	12.407	12.620	19.296
TOTAL OBS	311	281	310	300	310	300	310	310	300	310	300	310	3652
MEAN	21.2	21.7	30.5	36.9	50.6	59.1	62.8	63.8	57.2	45.2	36.7	26.7	42.8
S.D.	12.937	12.835	13.119	12.785	10.968	8.219	7.342	7.195	8.874	11.369	12.288	12.255	18.776
TOTAL OBS	310	281	310	300	310	300	310	310	300	310	300	310	3651
MEAN	21.4	21.8	30.7	36.8	50.5	58.8	62.4	63.5	56.7	44.7	36.0	26.5	42.6
S.D.	12.793	13.128	12.666	12.998	11.022	8.105	7.119	7.015	8.909	11.360	12.680	12.382	18.658
TOTAL OBS	310	281	310	300	310	300	310	310	300	310	300	310	3651
MEAN	19.8	21.0	29.8	36.1	50.0	59.2	62.8	63.5	56.8	44.4	35.8	25.8	42.1
S.D.	13.570	13.428	12.903	13.377	10.610	8.065	6.849	6.799	8.356	10.600	12.066	12.537	18.964
TOTAL OBS	310	281	310	300	310	300	310	310	300	310	300	309	3650
MEAN	18.6	20.1	29.1	35.8	49.8	57.6	62.4	63.4	56.7	43.8	35.2	25.4	41.6
S.D.	13.613	13.859	12.474	12.561	10.243	8.160	6.523	6.379	8.073	10.197	11.908	12.645	19.070
TOTAL OBS	310	281	310	300	310	300	310	309	300	310	300	309	3649
MEAN	19.2	20.1	29.0	36.0	49.7	58.3	62.7	63.5	56.5	44.0	35.5	25.5	41.6
S.D.	15.604	13.605	12.714	12.528	10.591	7.899	6.834	6.626	8.583	10.806	12.156	12.758	19.132
TOTAL OBS	2479	2249	2461	2400	2480	2400	2483	2479	2400	2483	2400	2478	29275

## RELATIVE HUMIDITY

STATION

FLEET COMBATTANT, P

7-5

JAN

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS L.S.T.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50	60%	70%	80%	90%		
JAN	01	100.0	100.0	100.0	93.4	87.6	72.2	47.6	27.8	14.6	72.7	309
	02	100.0	100.0	100.0	89.7	81.6	74.4	54.7	28.8	14.6	72.1	306
	03	100.0	100.0	100.0	88.4	83.5	73.1	57.1	31.3	13.5	72.9	310
	04	100.0	100.0	100.0	87.7	85.9	65.5	43.4	24.4	11.3	69.1	311
	05	100.0	100.0	98.4	92.6	77.7	55.5	31.0	13.7	9.7	64.3	310
JAN	06	100.0	100.0	98.7	89.7	74.5	53.9	33.2	13.7	6.7	63.4	310
	07	100.0	100.0	100.0	85.5	81.0	64.2	41.0	22.8	12.3	67.6	310
	08	100.0	100.0	99.7	87.4	87.7	65.0	42.6	26.1	12.9	68.9	310
	09											
	10											
TOTALS		100.0	100.0	99.6	86.1	85.6	61.6	43.8	24.8	12.3	68.6	2472

# RELATIVE HUMIDITY

2

STATION NAME: 77-0 MONTH: 1953

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
1	11.0	97.5	97.5	99.3	97.5	97.9	69.4	44.0	25.3	14.9	69.5	21
1	10.0	100.0	100.0	99.0	96.6	99.7	72.6	52.7	29.0	15.7	71.6	21
1	10.0	100.0	100.0	100.0	98.2	93.3	74.9	55.3	35.0	19.1	73.6	20
1	10.0	100.0	100.0	99.3	94.7	91.9	5	37.3	22.0	17.2	65.0	21
1	10.0	100.0	100.0	96.4	85.1	62.4	49.2	24.8	16.1	17.3	59.4	20
1	10.0	99.6	99.6	92.9	79.4	55.7	37.4	26.7	14.0	9.6	67.2	21
1	10.0	100.0	100.0	97.5	90.0	74.4	50.7	31.0	15.1	12.1	63.1	21
1	10.0	100.0	100.0	99.7	93.6	82.2	61.1	37.9	23.8	15.7	67.4	20
TOTALS	10.0	99.9	99.9	98.7	92.1	79.4	51.1	25.5	23.6	17.9	60.0	220

## RELATIVE HUMIDITY

 DATE: 10-17-57  
 STATION NAME:

73-31

3

MONTH

 CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
1	100.0	100.0	98.4	93.0	73.2	47.2	26.6	14.1	26.3	16.1	63.3	310
2	100.0	100.0	99.4	95.2	87.7	72.6	43.2	36.1	36.1	17.7	72.6	310
3	100.0	100.0	100.0	97.4	90.6	75.2	57.1	37.1	39.7	23.2	73.9	310
4	100.0	100.0	97.1	88.1	77.7	58.8	36.1	36.1	21.6	13.2	63.7	310
5	100.0	99.4	91.3	73.2	62.7	37.1	26.1	26.1	13.7	12.3	57.2	310
6	100.0	98.7	86.8	70.6	43.4	34.6	25.0	25.0	17.1	13.9	55.2	310
7	100.0	99.4	93.2	81.3	54.5	46.1	34.2	34.2	21.9	11.0	61.0	310
8	100.0	100.0	96.3	90.0	75.8	57.1	43.5	43.5	27.7	15.5	66.3	310
TOTAL	100.0	99.7	95.4	86.2	71.6	54.9	46.1	46.1	26.6	15.4	64.8	2400

6

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
5	1	100.0	100.0	99.9	91.3	77.7	51.3	30.0	25.0	14.0	66.7	300
	2	100.0	100.0	99.7	85.7	64.7	51.7	45.7	30.7	16.7	70.0	300
	3	100.0	100.0	99.7	85.7	65.0	67.3	45.7	29.7	14.0	69.5	300
	4	100.0	100.0	93.3	75.3	54.0	37.0	29.7	15.7	9.7	56.6	300
	5	100.0	93.0	81.3	56.7	39.7	26.0	19.0	13.7	5.3	49.8	300
	6	100.0	84.3	71.7	52.2	37.0	24.3	14.3	13.3	9.0	44.2	300
	7	100.0	81.0	63.7	46.3	48.0	35.3	25.3	17.3	11.0	54.0	300
	8	100.0	79.7	65.7	43.0	64.7	41.3	32.3	20.3	12.7	61.5	300
TOTALS		100.0	77.5	92.5	77.4	61.0	45.5	32.4	23.7	11.5	59.6	2400

## RELATIVE HUMIDITY

STATION NAME

DATE

TIME

STATION NAME

DATE

TIME

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
AV	1	100.0	100.0	100.0	97.7	92.9	82.9	67.7	49.4	34.2	77.9	310
	2	100.0	100.0	100.0	100.0	95.8	80.0	77.1	58.9	37.2	81.4	310
	3	100.0	100.0	100.0	99.0	92.9	79.7	67.1	47.7	24.9	77.1	310
	4	100.0	100.0	98.1	87.1	72.9	58.9	47.1	24.8	11.0	63.0	310
	5	100.0	99.0	92.9	84.5	61.8	36.9	26.1	17.9	6.8	59.0	310
	6	100.0	98.1	87.7	72.3	61.0	38.5	24.7	14.8	5.9	54.6	310
	7	100.0	99.7	96.1	81.0	62.3	49.4	36.1	23.2	11.0	61.8	310
	8	100.0	100.0	99.0	86.1	66.1	70.3	57.1	38.4	20.0	72.7	310
TOTAL		100.0	99.6	96.9	88.6	75.7	62.3	49.0	33.7	17.0	63.2	2400

## RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%	
1	120.0	100.0	100.0	100.0	100.0	99.7	93.7	87.7	57.7	11.0	370
2	120.0	100.0	100.0	100.0	100.0	100.0	92.3	80.3	71.0	24.0	370
3	120.0	100.0	100.0	100.0	100.0	99.7	94.7	78.7	71.7	14.3	370
4	120.0	100.0	100.0	99.7	95.7	85.7	57.0	34.0	20.0	5.7	370
5	120.0	100.0	100.0	99.0	85.3	64.0	37.7	17.7	10.3	3.0	370
6	120.0	100.0	100.0	96.7	82.7	65.7	42.3	17.7	17.0	3.7	370
7	120.0	100.0	100.0	98.7	81.0	72.0	46.0	31.0	15.3	3.3	370
8	120.0	100.0	100.0	100.0	99.0	84.7	62.0	50.0	34.7	10.0	370
TOTALS	870	100.0	100.0	99.4	84.4	72.0	63.1	50.0	33.3	11.6	370

# RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURLY U.S.F.	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
1	100.0	100.0	100.0	100.0	99.7	99.4	98.6	96.9	95.3	93.7	92.3	110
2	100.0	100.0	100.0	100.0	100.0	99.7	98.4	96.4	93.9	91.1	89.3	310
3	100.0	100.0	100.0	100.0	100.0	99.4	97.4	94.7	90.7	87.9	87.1	310
4	100.0	100.0	100.0	100.0	98.1	96.3	94.8	92.7	89.2	85.9	83.4	810
5	100.0	100.0	99.4	94.2	89.7	84.0	79.0	74.7	70.7	67.7	64.7	210
6	100.0	100.0	98.7	90.3	80.7	70.2	64.2	58.7	54.7	50.9	53.3	310
7	100.0	100.0	99.7	93.0	84.0	74.0	64.8	55.1	46.2	40.2	62.1	310
8	100.0	100.0	100.0	100.0	97.7	87.4	77.4	68.4	61.6	56.6	73.6	210
9	100.0	100.0	99.9	94.7	85.7	75.7	65.7	56.7	48.7	41.7	61.1	240



## RELATIVE HUMIDITY

DATE: 10/10/50 DAY: 10 MONTH: OCT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JANUARY	1	100.0	100.0	100.0	100.0	100.0	99.9	97.8	71.0	27.7	85.0	310
	2	100.0	100.0	100.0	100.0	100.0	100.0	99.1	92.6	65.3	80.7	310
	3	100.0	100.0	100.0	100.0	100.0	99.7	97.8	73.3	27.1	83.6	310
	4	100.0	100.0	100.0	100.0	95.9	69.1	40.0	15.7	5.2	53.4	310
FEBRUARY	1	100.0	100.0	100.0	95.6	70.0	40.3	21.4	7.7	1.3	51.0	310
	2	100.0	100.0	99.7	90.3	63.0	30.1	27.7	11.0	3.4	55.4	310
	3	100.0	100.0	100.0	99.1	90.0	63.2	42.4	20.3	4.1	67.0	310
	4	100.0	100.0	100.0	100.0	99.4	65.5	76.5	46.5	16.6	70.0	310
TOTALS		100.0	100.0	100.0	99.1	80.0	70.0	67.0	41.7	11.7	74.0	310

## RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
	1	100.0	100.0	100.0	100.0	100.0	98.7	91.7	89.0	87.0	87.0	370
	2	100.0	100.0	100.0	100.0	100.0	98.7	88.3	77.7	69.7	67.6	370
	3	100.0	100.0	100.0	100.0	100.0	98.7	91.3	78.0	68.0	67.0	370
	4	100.0	100.0	100.0	99.3	92.3	77.3	64.7	24.3	7.7	69.6	370
	5	100.0	100.0	100.0	91.7	72.7	4.7	24.7	11.7	7.7	68.1	370
	6	100.0	100.0	98.7	87.7	64.7	39.7	22.3	12.7	5.3	68.7	370
	7	100.0	100.0	100.0	89.7	89.7	73.7	40.3	20.7	10.3	70.9	370
	8	100.0	100.0	100.0	100.0	99.0	84.7	57.7	59.0	19.0	60.6	370
TOTALS		10.0	100.0	89.0	67.0	60.0	77.3	60.0	48.0	19.7	70.1	2470

## RELATIVE HUMIDITY

STATION NAME: 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS EST.	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
11	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
12	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOTALS	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LAST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN.	12	100.0	100.0	100.0	99.3	96.7	82.0	57.3	40.0	27.3	76.7	300
FEB.	12	100.0	100.0	100.0	100.0	97.3	87.3	66.7	40.7	27.7	73.6	300
MAR.	7	100.0	100.0	100.0	99.7	99.0	86.0	72.0	61.3	27.3	75.6	300
APR.	17	100.0	100.0	100.0	98.7	93.7	59.7	47.3	28.7	13.0	68.9	300
MAY	17	100.0	100.0	99.0	96.7	97.0	42.0	23.7	14.7	7.7	59.9	300
JUN.	17	100.0	100.0	97.3	4.7	61.7	42.0	24.0	16.3	7.7	56.2	300
JUL.	10	100.0	100.0	99.7	97.0	97.7	67.7	43.7	24.7	17.0	64.2	300
AUG.	7	100.0	100.0	99.7	99.0	96.0	76.3	51.3	33.0	17.3	77.7	300
TOTALS		100.0	100.0	99.9	98.9	97.0	67.4	40.7	32.0	17.4	70.9	2400

# RELATIVE HUMIDITY

DATE  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS 1st	10%	20%	30%	40%	50	60	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
1	100.0	100.0	100.0	100.0	8.7	10.0	8.6	6.7	30.0	2.2	74.2	31
2	100.0	100.0	100.0	100.0	9.0	10.0	11.9	11.7	20.0	20.0	75.1	31
3	100.0	100.0	100.0	100.0	9.4	10.0	11.0	11.3	20.4	10.7	75.4	31
4	100.0	100.0	100.0	100.0	10.1	10.0	10.0	10.1	27.7	10.0	75.3	31
5	100.0	100.0	100.0	100.0	11.0	10.0	10.0	11.0	21.3	11.0	75.3	31
6	100.0	100.0	100.0	100.0	11.0	10.0	10.0	11.0	21.3	11.0	75.3	31
7	100.0	100.0	100.0	100.0	11.0	10.0	10.0	11.0	21.3	11.0	75.3	31
8	100.0	100.0	100.0	100.0	11.0	10.0	10.0	11.0	21.3	11.0	75.3	31
9	100.0	100.0	100.0	100.0	11.0	10.0	10.0	11.0	21.3	11.0	75.3	31
10	100.0	100.0	100.0	100.0	11.0	10.0	10.0	11.0	21.3	11.0	75.3	31
TOTALS	100.0	100.0	100.0	100.0	10.0	10.0	10.0	11.0	21.3	11.0	75.3	31

# RELATIVE HUMIDITY

LL  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS 1517	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
1977	11	100.0	100.0	99.6	96.1	85.0	66.5	43.0	24.4	12.7	69.6	2479
1977	12	100.0	100.0	99.7	96.0	82.1	59.1	38.0	23.6	11.9	66.0	2240
1977	1	100.0	99.7	95.4	85.2	71.4	54.9	40.1	26.6	11.4	64.8	240
1977	2	100.0	99.6	93.5	87.4	61.2	45.3	30.4	20.7	11.7	59.6	2400
1977	3	100.0	99.6	96.9	88.6	75.7	62.3	48.0	33.7	17.0	68.2	2400
1977	4	100.0	100.0	99.4	94.4	83.5	69.1	50.4	33.6	11.6	69.8	2400
1977	5	100.0	100.0	99.6	94.5	82.6	67.1	49.0	32.7	9.8	69.1	2400
1977	6	100.0	100.0	100.0	98.1	89.4	75.6	60.8	41.7	15.7	74.0	2479
1977	7	100.0	100.0	99.8	97.2	89.7	77.3	62.8	45.2	12.7	70.1	2400
1977	8	100.0	100.0	99.3	96.2	86.0	72.9	56.4	39.1	10.9	73.0	2400
1977	9	100.0	100.0	99.3	95.6	85.0	67.4	48.7	32.0	17.4	70.8	2400
1977	10	100.0	100.0	99.7	95.9	86.8	69.8	48.0	30.0	15.8	70.2	2479
TOTALS	100.0	99.8	98.1	92.7	81.0	65.5	46.4	32.0	15.0	69.1	29203	

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

STATION: 100000, DATE: 10/10/50, TIME: 1000, WIND DIRECTION: 100, WIND SPEED: 10, WIND TYPE: 10

WIND DIRECTION		000	010	020	030	040	050	060	070	080	090	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	TOTALS
000	000																																						
000	010																																						
000	020																																						
000	030																																						
000	040																																						
000	050																																						
000	060																																						
000	070																																						
000	080																																						
000	090																																						
000	100																																						
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000	120																																						
000	130																																						
000	140																																						
000	150																																						
000	160																																						
000	170																																						
000	180																																						
000	190																																						
000	200																																						
000	210																																						
000	220																																						
000	230																																						
000	240																																						
000	250																																						
000	260																																						
000	270																																						
000	280																																						
000	290																																						
000	300																																						
000	310																																						
000	320																																						
000	330																																						
000	340																																						
000	350																																						
000	360																																						
000	TOTALS																																						

## PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

WIND DIRECTION

WIND DIRECTION

WIND DIRECTION	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	TOTALS
0-10	10.4										10.4
10-20		3.5									3.5
20-30		9.4	1.0								10.4
30-40		11.9	2.2								14.1
40-50		13.0	6.7	10.2							30.1
50-60		11.1	5.4	10.5							26.9
60-70		19.2	9.6	9.4							38.2
70-80		25.3	10.9	9.2							45.4
80-90		19.8	3.8	6.3							29.9
90-100		10.1	3.3	4.6							18.0
TOTALS	16.6	5.0	9.4	3.7	6.0	7.5	10.7	5.0	14.0	22.0	100.0



## PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

WIND DIRECTION

WIND DIRECTION	000-049	050-099	100-149	150-199	200-249	250-299	300-349	350-399	400-449	450-499	500-549	550-599	600-649	650-699	700-749	750-799	800-849	850-899	900-949	950-999
000-049																				
050-099																				
100-149																				
150-199																				
200-249																				
250-299																				
300-349																				
350-399																				
400-449																				
450-499																				
500-549																				
550-599																				
600-649																				
650-699																				
700-749																				
750-799																				
800-849																				
850-899																				
900-949																				
950-999																				
TOTALS	17.7	7.0	11.1	1.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

WIND DIRECTION	WIND DIRECTION															
	000	030	060	090	120	150	180	210	240	270	300	330	360	000	030	060
000	1.7													1.7		
030		7.6													7.6	
060			4.3													4.3
090				3.7												3.7
120					3.4											3.4
150						6.7										6.7
180							5.7									5.7
210								12.8								12.8
240									13.8							13.8
270										15.2						15.2
300											4.3					4.3
330												5.3				5.3
360													4.3			4.3
TOTALS	17.6	5.3	7.0	5.0	6.0	10.7	17.2	31.0	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

WIND DIRECTION	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100	TOTALS
0-45	1.1	6.1																			
45-90	5.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
90-135	6.5	4.3	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	
135-180	7.3	3.7	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	
180-225	11.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
225-270	11.7	3.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
270-315	13.1	10.1	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	
315-360	14.0	3.6	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	
TOTALS	7.2	7.7	11.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	7.7

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

WIND DIRECTION

WIND DIRECTION

WIND DIRECTION	000	030	060	090	120	150	180	210	240	270	300	330	TOTALS
000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
030	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
060	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
090	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
120	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
150	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
180	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
210	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
240	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
270	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
300	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
330	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	12.0
TOTALS	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	144.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

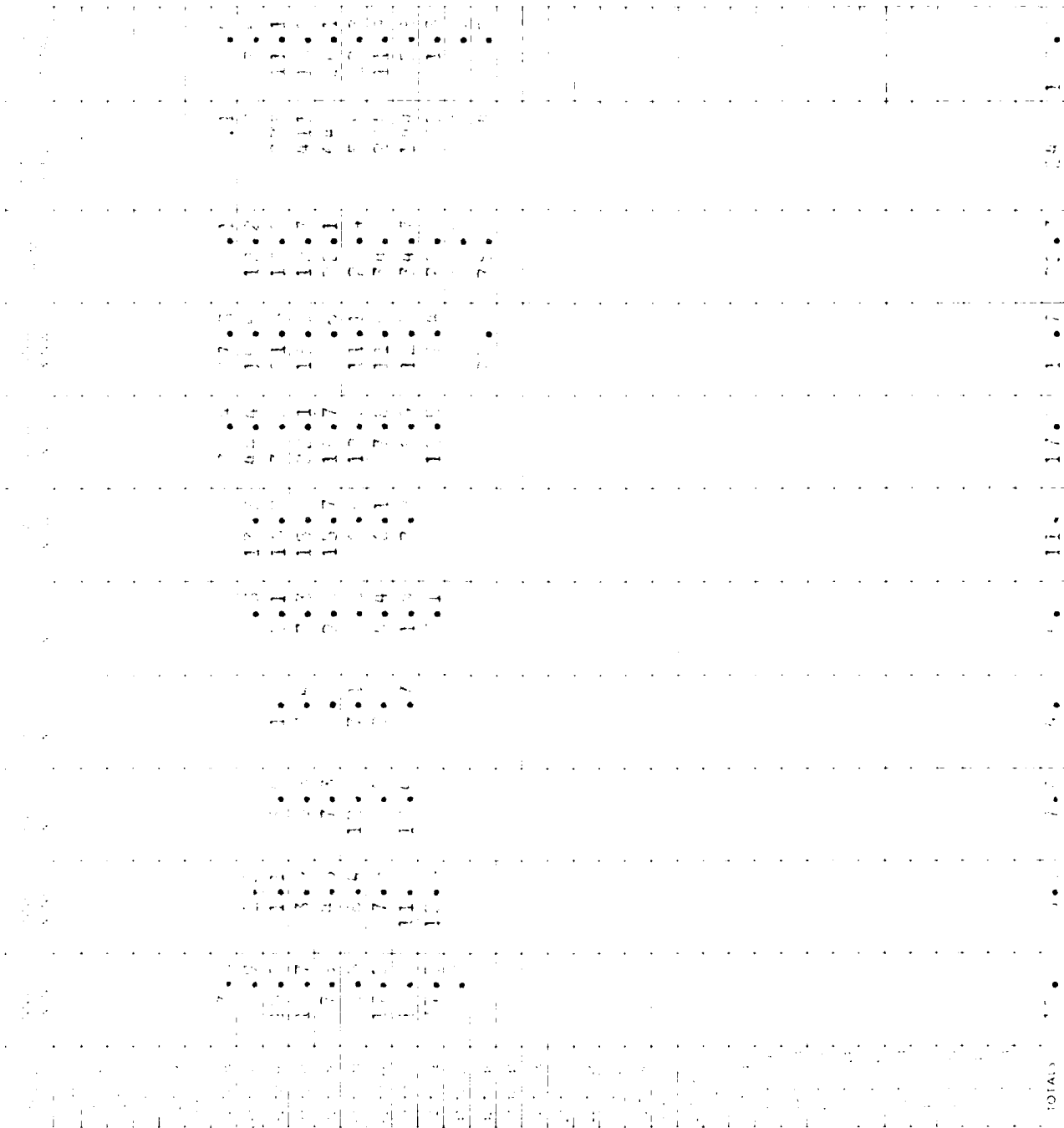
WIND DIRECTION

WIND DIRECTION

WIND DIRECTION	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	TOTAL
0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
20	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
30	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
40	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
50	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
60	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
70	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
80	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
90	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10.0
TOTAL	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

WIND DIRECTION



vs.

WIND DIRECTION

WIND DIRECTION

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TOTAL:

PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

WIND DIRECTION

WIND DIRECTION

WIND DIRECTION	000	030	060	090	120	150	180	210	240	270	300	330	360
000	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
030	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
060	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
090	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
120	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
150	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
180	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
210	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
240	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
270	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
300	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
330	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
360	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
TOTALS	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



# PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

WIND DIRECTION

WIND DIRECTION

WIND DIRECTION	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	TOTALS
0-10	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10-20	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
20-30	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
30-40	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
40-50	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
50-60	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60-70	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70-80	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80-90	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90-100	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TOTALS	1.0	7.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

## WIND DIRECTION

NAVWEASERVCOM

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

WIND DIRECTION

WIND DIRECTION	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	TOTALS
0-10	17.4	3.1	7.7	4.3	12.3	7.1	4.3	12.3	7.1	4.3	17.4
10-20	11.1	2.5	3.7	5.6	10.3	4.7	3.7	10.3	4.7	3.7	11.1
20-30	11.1	4.3	3.7	9.6	17.3	17.4	17.4	17.3	17.4	17.4	11.1
30-40	6.3	3.7	3.7	1.9	17.3	17.3	17.3	17.3	17.3	17.3	6.3
40-50	7.7	4.3	6.3	17.3	14.6	19.0	17.3	17.3	17.3	17.3	7.7
50-60	11.1	6.1	3.7	17.3	13.1	12.3	12.3	12.3	12.3	12.3	11.1
60-70	11.1	7.4	3.7	9.6	11.6	12.3	12.3	12.3	12.3	12.3	11.1
70-80	13.3	3.7	6.3	6.3	6.3	12.3	12.3	12.3	12.3	12.3	13.3
80-90	13.3	6.3	3.7	7.3	6.7	11.6	17.3	17.3	17.3	17.3	13.3
90-100	16.3	7.1	3.7	6.3	7.7	14.2	14.2	14.2	14.2	14.2	16.3
TOTALS	14.4	6.9	12.9	4.1	5.4	14.4	14.4	14.4	14.4	14.4	14.4
0-10	15.7	6.9	11.1	3.7	5.4	12.3	12.3	12.3	12.3	12.3	15.7
10-20	17.3	7.2	7.2	7.2	6.3	14.4	14.4	14.4	14.4	14.4	17.3
20-30	17.3	8.1	7.2	2.4	4.4	14.7	14.7	14.7	14.7	14.7	17.3
30-40	17.3	4.4	6.6	1.9	4.4	23.7	23.7	23.7	23.7	23.7	17.3
40-50	18.7	5.1	2.1	2.1	2.7	27.4	27.4	27.4	27.4	27.4	18.7
50-60	23.3	5.1	2.1	2.1	2.1	27.4	27.4	27.4	27.4	27.4	23.3
60-70	23.3	1.6	2.1	2.1	2.1	27.4	27.4	27.4	27.4	27.4	23.3
70-80	23.3	1.6	2.1	2.1	2.1	27.4	27.4	27.4	27.4	27.4	23.3
80-90	23.3	1.6	2.1	2.1	2.1	27.4	27.4	27.4	27.4	27.4	23.3
90-100	23.3	1.6	2.1	2.1	2.1	27.4	27.4	27.4	27.4	27.4	23.3
TOTALS	14.4	5.1	9.6	4.1	4.1	14.4	14.4	14.4	14.4	14.4	14.4

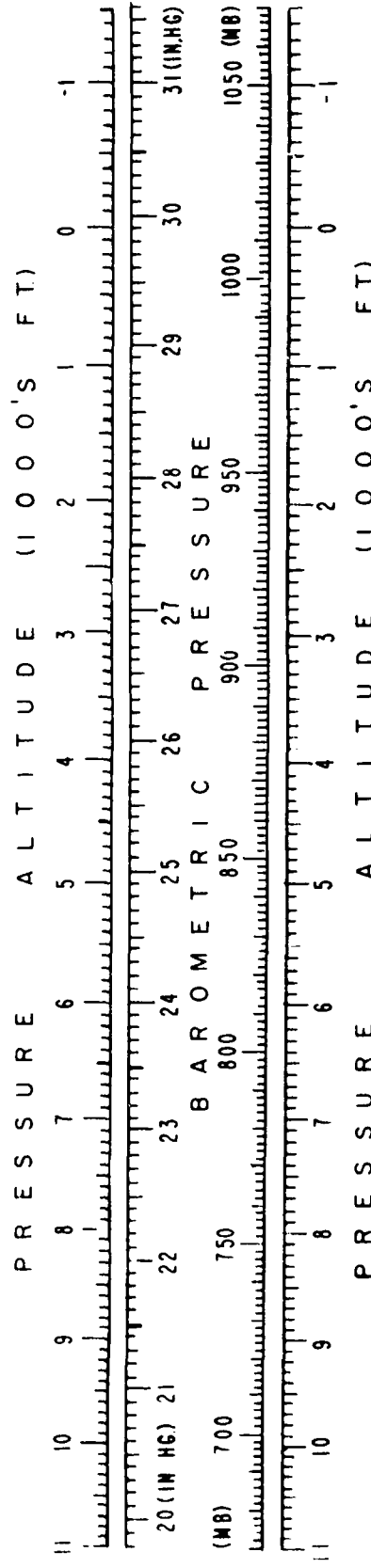
# PART F

## PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



## MEANS AND STANDARD DEVIATIONS

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**END**

**FILMED**

**4-85**

**DTIC**